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LCD TV

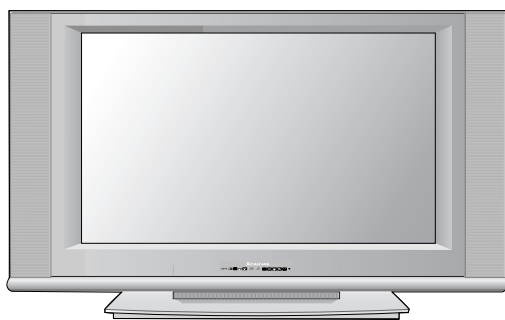
SERVICE MANUAL

CHASSIS : LA53A

MODEL : 32LP2DC-UA

CAUTION

BEFORE SERVICING THE CHASSIS,
READ THE SAFETY PRECAUTIONS IN THIS MANUAL.



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SAFETY PRECAUTIONS

IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by \triangle in the Schematic Diagram and Replacement Parts List.

It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent X-RADIATION, Shock, Fire, or other Hazards.

Do not modify the original design without permission of manufacturer.

General Guidance

An **isolation Transformer** should always be used during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks.

It will also protect the receiver and its components from being damaged by accidental shorts of the circuitry that may be inadvertently introduced during the service operation.

If any fuse (or Fusible Resistor) in this TV receiver is blown, replace it with the specified.

When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB.

Keep wires away from high voltage or high temperature parts.

X-RAY Radiation

Warning:

The source of X-RAY RADIATION in this TV receiver is the High Voltage Section and the LCD PANEL.

For continued X-RAY RADIATION protection, the replacement panel must be the same type panel as specified in the Replacement Parts List.

To determine the presence of high voltage, use an accurate high impedance HV meter.

Adjust brightness, color, contrast controls to minimum.

Measure the high voltage.

The meter reading should indicate

23.5 \pm 1.5KV: 14-19 inch, 26 \pm 1.5KV: 19-21 inch,

29.0 \pm 1.5KV: 25-29 inch, 30.0 \pm 1.5KV: 32 inch

If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.

Before returning the receiver to the customer,

always perform an **AC leakage current check** on the exposed metallic parts of the cabinet, such as antennas, terminals, etc., to be sure the set is safe to operate without damage of electrical shock.

Leakage Current Cold Check(Antenna Cold Check)

With the instrument AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on position, connect one lead of ohm-meter to the AC plug prongs tied together and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc.

If the exposed metallic part has a return path to the chassis, the measured resistance should be between 1M Ω and 5.2M Ω .

When the exposed metal has no return path to the chassis the reading must be infinite.

An other abnormality exists that must be corrected before the receiver is returned to the customer.

Leakage Current Hot Check (See below Figure)

Plug the AC cord directly into the AC outlet.

Do not use a line Isolation Transformer during this check.

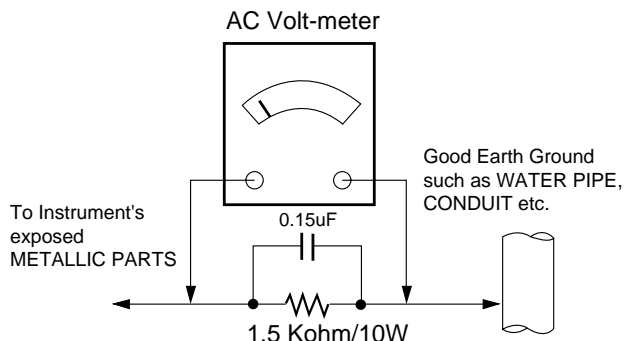
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.

Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity.

Reverse plug the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part. Any voltage measured must not exceed 0.75 volt RMS which corresponds to 0.5mA.

In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

Leakage Current Hot Check circuit



SERVICING PRECAUTIONS

CAUTION: Before servicing receivers covered by this service manual and its supplements and addenda, read and follow the *SAFETY PRECAUTIONS* on page 3 of this publication.

NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 3 of this publication, always follow the safety precautions. Remember: Safety First.

General Servicing Precautions

1. Always unplug the receiver AC power cord from the AC power source before;
 - a. Removing or reinstalling any component, circuit board module or any other receiver assembly.
 - b. Disconnecting or reconnecting any receiver electrical plug or other electrical connection.
 - c. Connecting a test substitute in parallel with an electrolytic capacitor in the receiver.**CAUTION:** A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.

2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM, etc) equipped with a suitable high voltage probe. Do not test high voltage by "drawing an arc".

3. Do not spray chemicals on or near this receiver or any of its assemblies.

4. Unless specified otherwise in this service manual, clean electrical contacts only by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable non-abrasive applicator; 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength)

CAUTION: This is a flammable mixture.

Unless specified otherwise in this service manual, lubrication of contacts is not required.

5. Do not defeat any plug/socket B+ voltage interlocks with which receivers covered by this service manual might be equipped.
6. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
7. Always connect the test receiver ground lead to the receiver chassis ground before connecting the test receiver positive lead.

Always remove the test receiver ground lead last.

8. Use with this receiver only the test fixtures specified in this service manual.

CAUTION: Do not connect the test fixture ground strap to any heat sink in this receiver.

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid-state) devices can be damaged easily by static electricity. Such components commonly are called *Electrostatically Sensitive (ES) Devices*. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed to prevent potential shock reasons prior to applying power to the

unit under test.

2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range or 500 °F to 600 °F.
2. Use an appropriate gauge of RMA resin-core solder composed of 60 parts tin/40 parts lead.
3. Keep the soldering iron tip clean and well tinned.
4. Thoroughly clean the surfaces to be soldered. Use a mall wire-bristle (0.5 inch, or 1.25cm) brush with a metal handle. Do not use freon-propelled spray-on cleaners.
5. Use the following unsoldering technique
 - a. Allow the soldering iron tip to reach normal temperature. (500 °F to 600 °F)
 - b. Heat the component lead until the solder melts.
 - c. Quickly draw the melted solder with an anti-static, suction-type solder removal device or with solder braid.
CAUTION: Work quickly to avoid overheating the circuitboard printed foil.
6. Use the following soldering technique.
 - a. Allow the soldering iron tip to reach a normal temperature (500 °F to 600 °F)
 - b. First, hold the soldering iron tip and solder the strand against the component lead until the solder melts.
 - c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.
CAUTION: Work quickly to avoid overheating the circuit board printed foil.
- d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.

IC Remove/Replacement

Some chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are the slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 and 6 above.

Removal

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.
2. Draw away the melted solder with an anti-static suction-type solder removal device (or with solder braid) before removing the IC.

Replacement

1. Carefully insert the replacement IC in the circuit board.
2. Carefully bend each IC lead against the circuit foil pad and solder it.
3. Clean the soldered areas with a small wire-bristle brush.
(It is not necessary to reapply acrylic coating to the areas).

"Small-Signal" Discrete Transistor

Removal/Replacement

1. Remove the defective transistor by clipping its leads as close as possible to the component body.
2. Bend into a "U" shape the end of each of three leads remaining on the circuit board.
3. Bend into a "U" shape the replacement transistor leads.
4. Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal to metal contact then solder each connection.

Power Output, Transistor Device

Removal/Replacement

1. Heat and remove all solder from around the transistor leads.
2. Remove the heat sink mounting screw (if so equipped).
3. Carefully remove the transistor from the heat sink of the circuit board.
4. Insert new transistor in the circuit board.
5. Solder each transistor lead, and clip off excess lead.
6. Replace heat sink.

Diode Removal/Replacement

1. Remove defective diode by clipping its leads as close as possible to diode body.
2. Bend the two remaining leads perpendicular y to the circuit board.
3. Observing diode polarity, wrap each lead of the new diode around the corresponding lead on the circuit board.
4. Securely crimp each connection and solder it.
5. Inspect (on the circuit board copper side) the solder joints of the two "original" leads. If they are not shiny, reheat them and if necessary, apply additional solder.

Fuse and Conventional Resistor

Removal/Replacement

1. Clip each fuse or resistor lead at top of the circuit board hollow stake.
2. Securely crimp the leads of replacement component around notch at stake top.
3. Solder the connections.

CAUTION: Maintain original spacing between the replaced component and adjacent components and the circuit board to prevent excessive component temperatures.

Circuit Board Foil Repair

Excessive heat applied to the copper foil of any printed circuit board will weaken the adhesive that bonds the foil to the circuit board causing the foil to separate from or "lift-off" the board. The following guidelines and procedures should be followed whenever this condition is encountered.

At IC Connections

To repair a defective copper pattern at IC connections use the following procedure to install a jumper wire on the copper pattern side of the circuit board. (Use this technique only on IC connections).

1. Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary).
2. carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.
3. Bend a small "U" in one end of a small gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.
4. Route the jumper wire along the path of the out-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area and clip off any excess jumper wire.

At Other Connections

Use the following technique to repair the defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.

1. Remove the defective copper pattern with a sharp knife.
Remove at least 1/4 inch of copper, to ensure that a hazardous condition will not exist if the jumper wire opens.
2. Trace along the copper pattern from both sides of the pattern break and locate the nearest component that is directly connected to the affected copper pattern.
3. Connect insulated 20-gauge jumper wire from the lead of the nearest component on one side of the pattern break to the lead of the nearest component on the other side.
Carefully crimp and solder the connections.

CAUTION: Be sure the insulated jumper wire is dressed so the it does not touch components or sharp edges.

SPECIFICATION

NOTE : Specifications and others are subject to change without notice for improvement.

1. Application range

This specification is applied to LA53A chassis.

2. Specification

Each part is tested as below without special appointment.

- (1) Temperature: 20°C ± 5°C
- (2) Humidity: 65% ± 10%
- (3) Power: Standard input voltage (AC 100-240V, 50/60Hz)
* Standard Voltage of each product is marked by models.
- (4) Specification and performance of each parts are followed each drawing and specification by part number in accordance with BOM
- (5) The receiver must be operated for about 20 minutes prior to the adjustment.

3. Test method

- (1) Performance : LGE TV test method followed
- (2) Demanded other specification
Safety : UL, CSA, IEC specification
- (3) EMC : FCC, ICES, IEC specification

4. General Specification

No	Item	Specification	Remark
1.	Receiving System	ATSC/ 64 & 256 QAM/NTSC-M	Slim-VSB
2.	Available Channel	VHF : 02~13 UHF : 14~69 CATV : 01~135 DTV : 02-69 CADTV : 01~135	
3.	Input Voltage	AC 100 ~ 260V 50/60Hz	
4.	Market	North America	
5.	Screen Size	32 inch wide	
6.	Aspect Ratio	16:9	
7.	Tuning System	FS	
8.	LCD Module	LC320W01-SL11 (1366x768)	LG Philips LCD
9.	Operating Environment	Temp. : 0 ~ 40 deg Humidity : ~ 80 %	
10.	Storage Environment	Temp. : -20 ~ 50 deg Humidity : 10 ~ 90 %	

5. Feature and Function

No	Item		Specification		Remark
1.	Feature	AV Input / Out	2	AV Input1, 2(Video, Front Video)	Rear1, Front1
		RGB Input	2	Analog RGB1, 2	Rear2(D-Sub 15pin)
		S-Input	2	S-Input	Rear1, Front1
		DVI Input	1	DVI Input	Rear1
		Y, Pb, Pr Input	2	Component 1, 2	Rear1, Side1
		SPDIF Out	1	SPDIF Out	Rear
		SPDIF Input	1	SPDIF Input	Rear
		RS-232C	1	S/W Download	D-Sub 9pin
		Internal SPK Out	1	Mono, < 2W	Rear, for remote speaker
2.	Key	Local Key	POWER, TV/Video, Menu, ENTER, Volume(◀, ▶), Channel (▲, ▼)		

No	Item		Specification	Remark
3.	SETUP	EZ Scan	Auto Channel Search	
		Manual Scan	TV/CATV/DTV/CADTV	
		CH. Edit	CH. Add/Delete	
		DTV Signal	Bad/Normal/Good	DTV Only
		Ch. Label	Broadcaster Logo	RGB-DTV <-> RGB-PC
		Main Input	Antenna, Cable, Video, Front Video, Component1, RGB-DTV/PC, DVI	
		Input Label	VCR, DVD, VCR/DVD, Set Top Box, Satellite, Cable Box, Game, PC for Video, Front Video, Component1/2, RGB, DVI	
		SET ID	1~99	
4.	Picture	EZ Picture	Custom, Daylight, Normal, Night Time, Movie, Video Game, Sports	
		Contrast	0~100	
		Brightness	0~100	
		Color	0~100	
		Sharpness	0~100	
		Tint	Red 0~50, Green0~50	
		Color Temperature	Cool/Medium/Warm	
		Video Preset	Initialization	
5.	Audio	Audio Language	English/Spanish/French	DTV Only
		EZ SoundRite	Off/On	
		EZ Sound	Custom/Normal/Stadium/News/Music/Theater	
		Balance	Left 0~50, Right 0~50	
		Treble	0~100	
		Bass	0~100	
		Front Surround	Off/3D EchoSound System/SRS TruSurround XT	
		BBE	Off/On	
		TV Speaker	Off/On	
6.	Time	Auto Clock	Off/On/Time Zone/Daylight Saving	
		Manual Clock	Year/Data/Time	
		Off Timer	Off/On/Time	
		On Timer	Off/On/Time/Ch./Vol	
		Sleep Timer	Off/10min/20min/30min/60min/90min/120min/180min/240min	
		Auto Off	Off/On	
7.	Option	Aspect Ratio	Set By Program/4:3/16:9/Horizontal/Zoom1/Zoom2/Cinema Zoom	DTV : Excluded spectacle
		Cinema 3:2 mode	Off/On	Component 480i, Composite
		Caption	Off/On	
		Caption/Text	CC1/CC2/CC3/CC4/Text1/Text2/Text3/Text4	
		Caption Option	Style/Size/Font/Text Color/Text Opacity/Bg Color/Bg Opacity/Edge Type/Edge Color	
		Language	English/Espanol/Francais	
8.	Lock	Lock System	Off/On	
		Set Password	New/Confirm	Default : 0000
		Block Ch.	Select	
		Movie Rating	G/PG/PG-13/R/NC-17/X	
		TV Rating-Children	Age/Fantasy Violence	
		TV Rating-General	Age/Dialogue/Language/Sex/Violence	
		Input Block	Video, Front Video, Component1, RGB, DVI	
9.	Etc.	Comb Filter	3D Comb	
		Remocon	LG code	
		HDCP	O	

6. Chroma & Brightness

No.	Item			Min	Typ	Max	Unit	Remark
1	White Brightness			400	500		cd/m ²	EZ Picture : Daylight, Color Temperature : Medium
2	Color Coordinate (Default)	RED	X	0.602	0.632	0.662		Full Signal Swing ±0.025
			Y	0.312	0.342	0.372		
		GREEN	X	0.258	0.288	0.318		
			Y	0.580	0.610	0.640		
		BLUE	X	0.117	0.147	0.177		
			Y	0.035	0.065	0.095		
		WHITE	X	0.246	0.287	0.296		
			Y	0.254	0.289	0.304		
3	Brightness uniformity			80			%	Full White
4	Contrast ratio			600:1	800:1			EZ Picture : Daylight, Color Temperature : Medium
5	Color Temperature	Standard		8,300	9,300	10,300		
		Cool		11,000	12,000	13,000		
		Warm		5,500	6,500	7,500		

7. External Input Format

7-1. Component Video Input (Y, CB/PB, CR/PR)

No	Resolution	H-freq(kHz)	V-freq.(kHz)	Pixel clock	Proposed
1.	720*480	15.73	59.94		SDTV ,DVD 480I
2.	720*480	15.73	60.00		SDTV ,DVD 480I
3.	720*480	31.47	59.94		SDTV 480P
4.	720*480	31.50	60.00		SDTV 480P
5.	1280*720	44.96	59.94		HDTV 720P
6.	1280*720	45.00	60.00		HDTV 720P
7.	1920*1080	33.72	59.94		HDTV 1080I
8	1920*1080	33.75	60.00		HDTV 1080I

7-2. RGB Input (PC/DTV)

No	Resolution	H-freq(kHz)	V-freq.(kHz)	Pixel clock	Proposed	
	PC					DDC
1	640*350	31.469	70.08	25.17	DOS	X
2	640*480	31.469	59.94	25.17	VESA(VGA)	O
3	640*480	37.861	72.80	31.50	VESA(VGA)	O
4	640*480	37.500	75.00	31.50	VESA(VGA)	O
5	800*600	35.156	56.25	36.00	VESA(SVGA)	O
6	800*600	37.879	60.31	40.00	VESA(SVGA)	O
7	800*600	48.077	72.18	50.00	VESA(SVGA)	O
8	800*600	46.875	75.00	49.50	VESA(SVGA)	O
9	1024*768	48.363	60.00	65.00	VESA(XGA)	O
10	1024*768	56.476	70.06	75.00	VESA(XGA)	O
11	1024*768	60.023	75.02	78.75	VESA(XGA)	O
	DTV					
1.	720*480	31.50	59.94		SDTV 480P	
2.	720*480	31.47	60.00		SDTV 480P	
3.	1280*720	44.96	59.94		HDTV 720P	
4.	1280*720	45.00	60.00		HDTV 720P	
5.	1920*1080	33.72	59.94		HDTV 1080I	
6.	1920*1080	33.75	60.00		HDTV 1080I	

DVI input (PC/DTV)

No	Resolution	H-freq(kHz)	V-freq.(kHz)	Pixel clock	Proposed	
	PC					DDC
1.	640*480	31.469	59.94	25.17	VESA(VGA)	O
2.	640*480	37.861	72.80	31.50	VESA(VGA)	O
3.	640*480	37.500	75.00	31.50	VESA(VGA)	O
4.	800*600	35.156	56.25	36.00	VESA(SVGA)	O
5.	800*600	37.879	60.31	40.00	VESA(SVGA)	O
6.	800*600	48.077	72.18	50.00	VESA(SVGA)	O
7.	800*600	46.875	75.00	49.50	VESA(SVGA)	O
8.	1024*768	48.363	60.00	65.00	VESA(XGA)	O
9.	1024*768	56.476	70.06	75.00	VESA(XGA)	O
10.	1024*768	60.023	75.02	78.75		O
	DTV					
11.	720*480	31.500	59.94	27.00	SDTV 480P	
12.	720*480	31.469	60.00	27.03	SDTV 480P	
13.	1280*720	44.96	59.94		HDTV 720P	
14.	1280*720	45.00	60.00		HDTV 720P	
15.	1920*1080	33.72	59.94		HDTV 1080I	
16.	1920*1080	33.75	60.00		HDTV 1080I	

8. POWER

No	Item	Min	Typ	Max	Unit	Remark
1.	AC Power Operating Voltage	100		240	V	
2.	DC Voltage, LCD Panel Drive	11.4	12.0	12.6	V	
3.	DC Voltage, Inverter	22.8	24.0	25.2	V	
4.	DC Voltage, Sound AMP	18.0	19.0	20.0	V	
5.	DC Voltage, Stand By	5.6	6.0	6.4	V	
6.	DC Voltage, Scaler(HD2)	3.1	3.3	3.5	V	I/O port supply
7.	DC Voltage, Scaler(HD2)	1.6	1.8	1.9		Internal core supply
8.	DC Voltage, ADC	3.0	3.3	3.6	V	MST3385
	DC Voltage, ADC 2.5V	2.3	2.5	2.7	V	
9.	DC Voltage, Micom	4.7	5	5.3	V	
10.	DC Voltage, Tuner	4.75	5.00	5.25	V	

9. External Interface

- AV Input

No	Item		Min	Typ	Max	Unit	Remark
1.	AV Video Out Level		0.85	1.0	1.15	Vpp	
2.	AV Video Sync Out Level		0.24	0.29	0.32	Vpp	
3.	AV Burst Out Level		0.14	0.28	0.35	Vpp	
4.	AV Video Out Frequency Characteristic		3.0			MHz	
5.	AV Video Out S/N		40.0			dB	
6.	AV Audio In S/N, L/R		43.0			dB	
7.	AV Audio In Frequency Response, Low		80.0			Hz	
8.	AV Audio In Frequency Response, High		7.0	10.0	18.0	kHz	
9.	AV Audio In Distortion				2.0	%	
10.	AV Audio In Max Distortion				10.0	%	
11.	AV Audio In Level, L/R		0.3	0.4	0.5	Vrms	
12.	AV Audio In Crosstalk, L/R		40.0			dB	
13.	AV Audio Dynamic Range		2.00			Vpp	
14.	AV Audio Out Level, L/R		0.3	0.4	0.5	Vrms	
15.	AV Audio Out Crosstalk, L/R		20.0			dB	
16.	AV Audio Out S/N, L/R		43.0			dB	
17.	AV Audio Out Distortion				2.0	%	
18.	AV Audio Out Frequency Response	Low	80.0			Hz	
		High	8.0	10.0	19.0	kHz	
19.	Component Video Input Level (Y, CB/PB, CR/PR)		0.6	1.0	1.14	Vpp	75 ohm (480i,480p,720p,1080i)
20.	RGB Input Level		0.6	0.7	0.8	Vpp	75 ohm

10. General Specifications

No	Item		Min	Typ	Max	Unit	Remark
1	Active Screen Size		750.062(diagonal)			mm	29.53 inches
2	Outline Dimension		697.3(H)x431.8(V)x50.9(D)			mm	
3	Pixel Pitch		0.5025x0.1675xRGB			mm	
4	Pixel Format		1280(H)x768(V) stripe arrangement				
5	Color Depth		8bit 16.7			Mbit	
6	Luminance ,White		500 (center 1 point typ)			cd/m2	
7	Viewing Angle (CR>10)		R/L 176(Typ),U/P 176(Typ)			degree	
8	Power Consumption		99.16			Watt	
9	Weight		6.75			kg	
10	Display Operating Mode		Transmissive mode ,normally black				
11	Surface Treatment		Hard coating (3H)				
12	Altitude	Operating	0 - 14,000			feet	4,267.2 m
		Storage/Shipment	0 - 40,000			feet	12,192.0 m

11. Electro Optical Characteristic Specifications

No	Item		Min	Typ	Max	Unit	Remark
1	Contrast Ratio		600	800		C	It measured at center point
2	Surface Luminance, White		400	500		Cd/m ²	Full white
3	Luminance Variation				1.3		
4	Response Time	Tr (Rising time)		16	30	msec	
5	Color coordinate	RED	X	Typ -0.03	0.632	Typ +0.03	Full Pattern
			Y		0.342		
		GREEN	X		0.288		
			Y		0.610		
		BLUE	X		0.147		
			Y		0.065		
		WHITE	X		0.287		
			Y		0.289		
6	Viewing Angle (CR>10)	X axis right(ϕ =0)		85	88	degree	
		X axis left(ϕ =180)		85	88		
		Yaxis up (ϕ =90)		85	88		
		Z axis down(ϕ =270)		85	88		

12. Mechanical specification

No	Item	Content			Remark
1	Product Dimension	Width (W)	Length (D)	Height (H)	
		874	109	538	
		874	186	580.5	With Stand
2	Product Weight	28.1Kg			

ADJUSTMENT INSTRUCTION

1. Application Object

This instruction is for the application to the LCD TV.

2. Designation.

- 2.1 As this chassis is a non-charging type of chassis for insulation of the power supply part, it may not use an insulation type of transformer but it is better to adjust after operating an insulation type of transformer between the power supply line and the input side of chassis.
- 2.2 Adjustment must be done according to accurate order. However, order may be changed considering mass production.
- 2.3 Adjustment must be done in environment of ambient temperature of $25 \pm 5^{\circ}\text{C}$, RH $65 \pm 10\%$ unless specially designated.
- 2.4 For adjustment, input voltage of the receiver must be maintained at 110V, 60Hz.
- 2.5 The receiver must be maintained in preliminary operation status for about 15 minutes before adjustment unless specially designated.

- Perform preliminary operation after receiving 100% White Pattern (06CH).
(Or 3. White Pattern status of Ex-Adjust)
- White Pattern entry method
 - A) Enter into Ez-Adjust by pressing the ADJ key on the adjustment R/C.
 - B) 100% FULL WHITE PATTERN appears if pressing the OK (■) key after selecting the 3.WHITE PATTERN with the CH + / - KEY.

* It is possible to heat run the set without a separate signal generator in this mode.

Caution : Care must be taken as afterimage phenomena may occur about the black level part of screen If leaving pause image turned on for more than 20 minutes (especially inner digital pattern (13 CH), Cross Hatch Pattern (09CH) with significant black/white contrast).

3. Total Adjustment

3.1 EDID (Extended Display Identification Data) / DDC (Display Data Channel) download

3.1.1 Summary

: This function was created by VESA and is intended to realize "Plug and Play" that the computer automatically communicates with the monitor through mutual change of information and re-configure user environment so than the user can immediately use the computer without providing direct command to the PC or monitor.

3.2 AD9883A-Set Adjustment

3.2.1 Summary

: The AD9883A-Set Adjust is function that the A/D converter automatically sets up optimum blacklevel and gain and compensate RGB deviation.

- DVI EDID Data

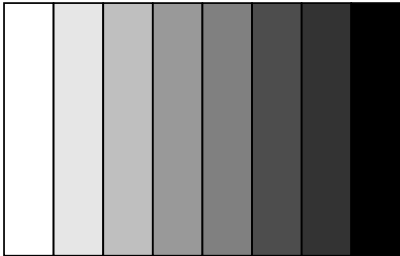
	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	00	FF	FF	FF	FF	FF	FF	00	1E	6D	01	01	01	01	01	01
10	03	0E	01	03	98	6E	3E	96	08	E8	AA	A1	57	49	9C	25
20	10	48	4B	AF	CE	00	31	4A	31	4F	3B	C0	45	40	61	4F
30	01	01	01	01	01	40	C3	1E	00	20	41	00	20	30	10	60
40	13	00	4C	6C	42	00	00	1E	00	00	00	FC	00	4C	47	20
50	4C	43	44	20	20	20	20	20	20	0A	00	00	00	FD	00	38
60	4B	1E	3E	08	00	0A	20	20	20	20	20	20	00	00	00	FC
70	00	33	32	4C	50	31	44	43	20	20	20	20	20	20	00	BE

- RGB EDID Data

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	00	FF	FF	FF	FF	FF	FF	00	1E	6D	01	01	01	01	01	01
10	03	0E	01	03	18	6E	3E	96	08	E8	AA	A1	57	49	9C	25
20	10	48	4B	AF	CE	00	31	4A	31	4F	3B	C0	45	40	61	4F
30	01	01	01	01	01	40	C3	1E	00	20	41	00	20	30	10	60
40	13	00	4C	6C	42	00	00	1E	00	00	00	FC	00	4C	47	20
50	4B	43	44	20	20	20	20	20	20	0A	00	00	00	FD	00	38
60	4B	1E	3E	08	00	0A	20	20	20	20	20	20	00	00	00	FC
70	00	33	32	4C	50	31	44	43	20	20	20	20	20	20	00	3E

3.2.2 Adjustment Method

- A) Enter the 100% Vertical Color Bar Pattern (TVBAR_100) of the 720P Mode supported for entry of component and select entry selection to Component1 or Component2 and then select image to 'Normal'.
- B) After waiting for more than a second after receipt of signal, enter into 'Ez?Adjust' by pressing the ADJ Key on the Adjustment R/C. Adjustment is automatically done if pressing the (+) key after selecting the '1. AD9883A-Set'.
- C) If adjustment is normally completed, 'AD9883E≠Set' message is displayed, and if not normally completed, 'AD9883A Setup Error' message is displayed.
- D) If adjustment is completed, exit the adjustment mode by pressing the ADJ key.

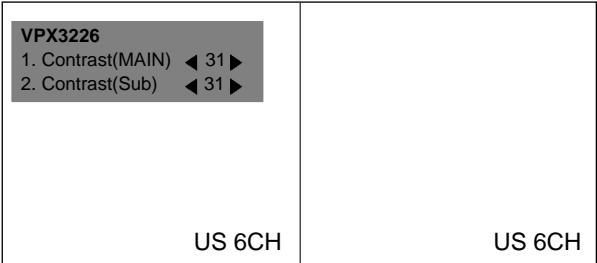


<Adjustment Pattern : 720P Vertical Color Bar>

3.3 Color adjustment of main/subsidiary part

Color adjustment of main/subsidiary part is intended to reduce color difference of the main/subsidiary part in the PIP/POP/SPLIT Screen.

- A) After entering inner signal, enter into the 'Ez?Adjust' by pressing the ADJ key of the remote control for adjustment and select the '2.VPX3226' and enter into the Adjustment Mode by pressing the right key (▶).
- B) The screen automatically becomes a TV 6CH SPLIT Screen if entering into the Adjustment and a window appears as below.

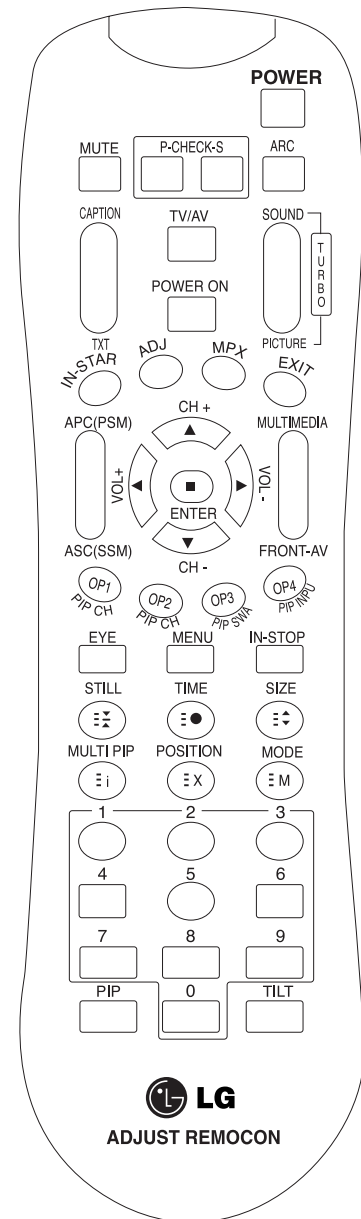


< Screen Adjustment Command Table. (RS-232) >

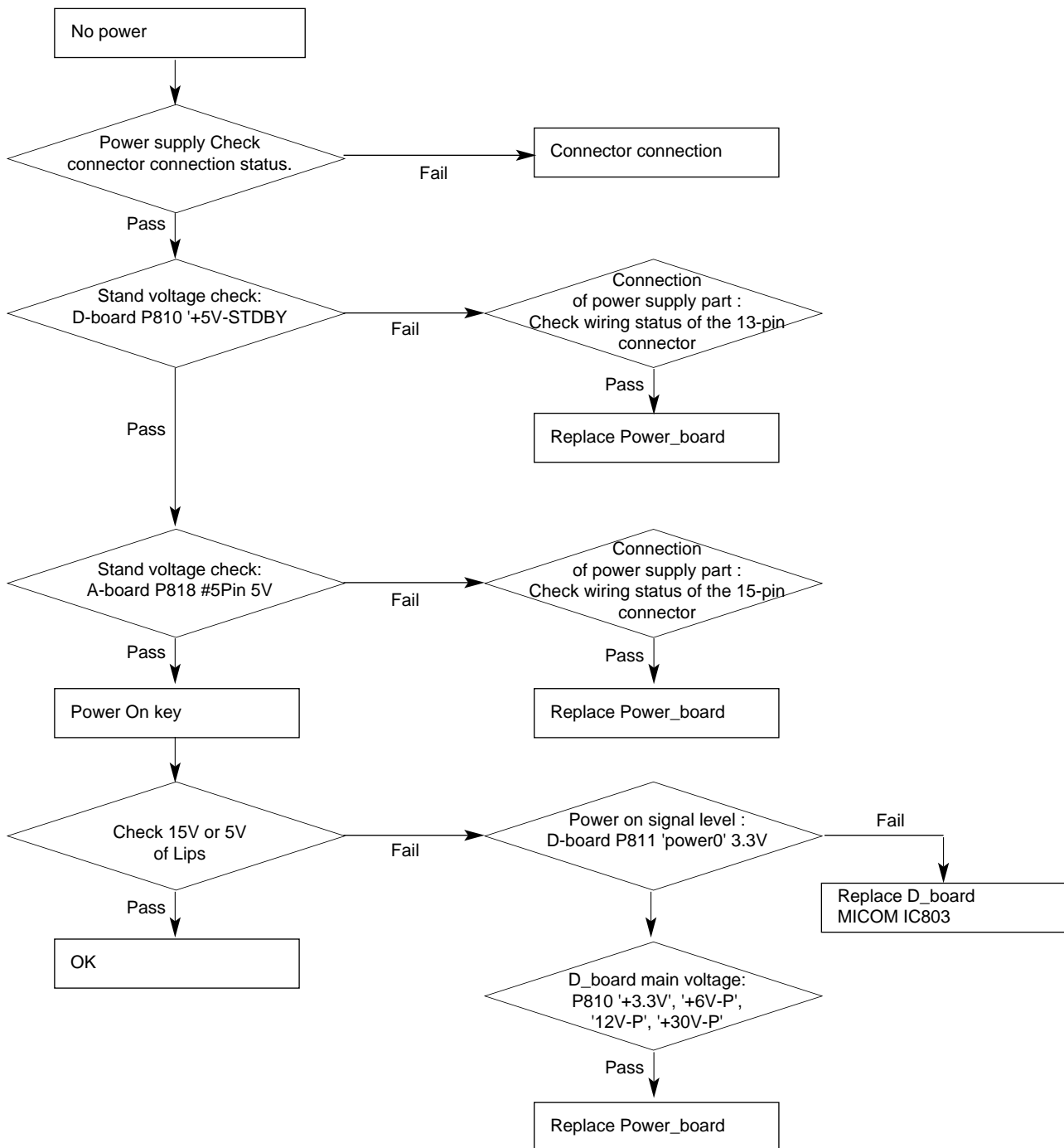
- C) Firstly adjust '1.Contrast (Main)' so that figure of "US 6CH" character of the left main screen is shown mostly clearly and vividly (so that saturation is not done) and set the '2.Contrast(Sub)' to same value. In this case, adjust it by using the volume +/- key.
- D) If adjustment is completed, exit the Adjustment Mode by pressing the ADJ key.

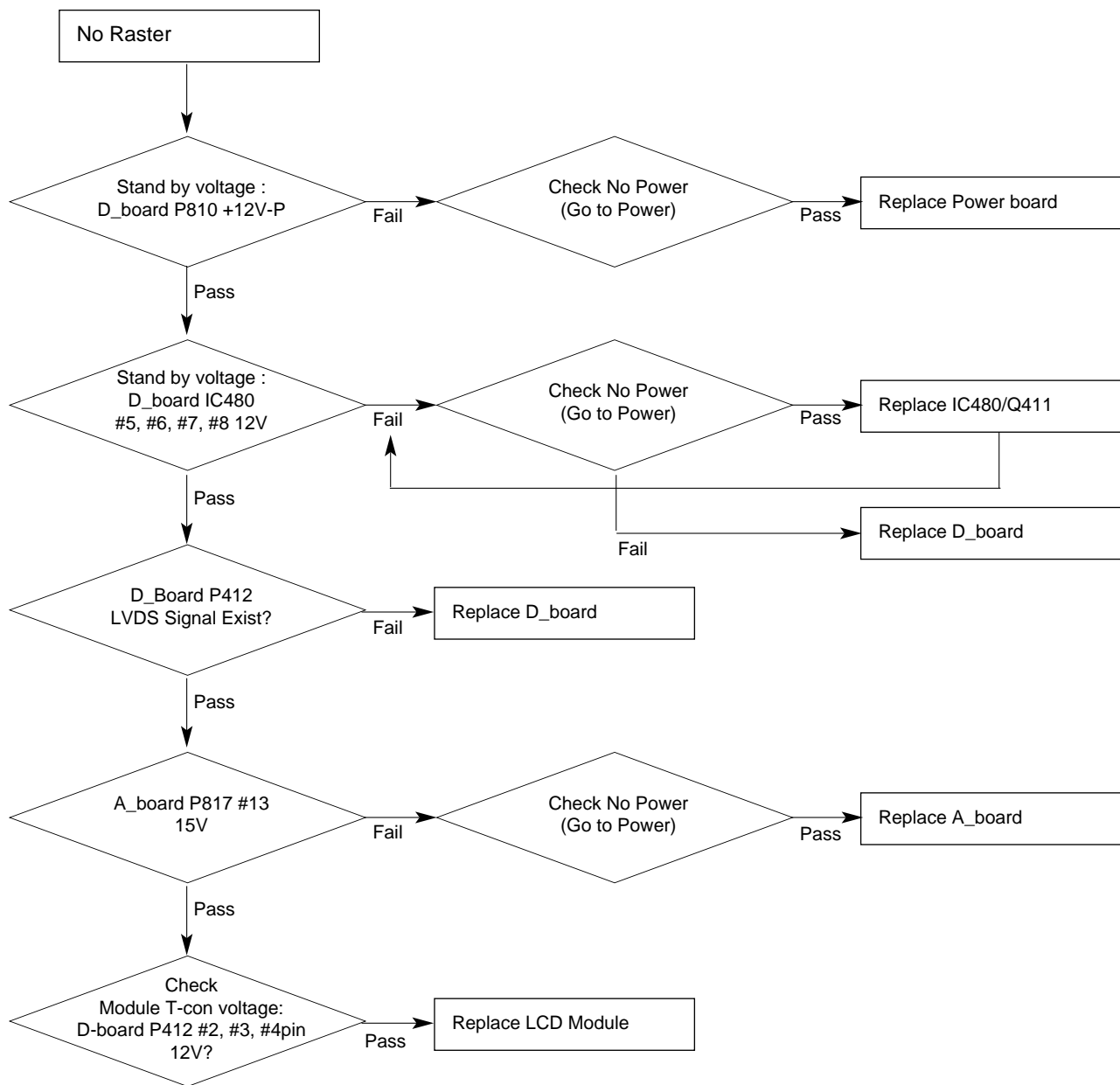
SVC REMOCON

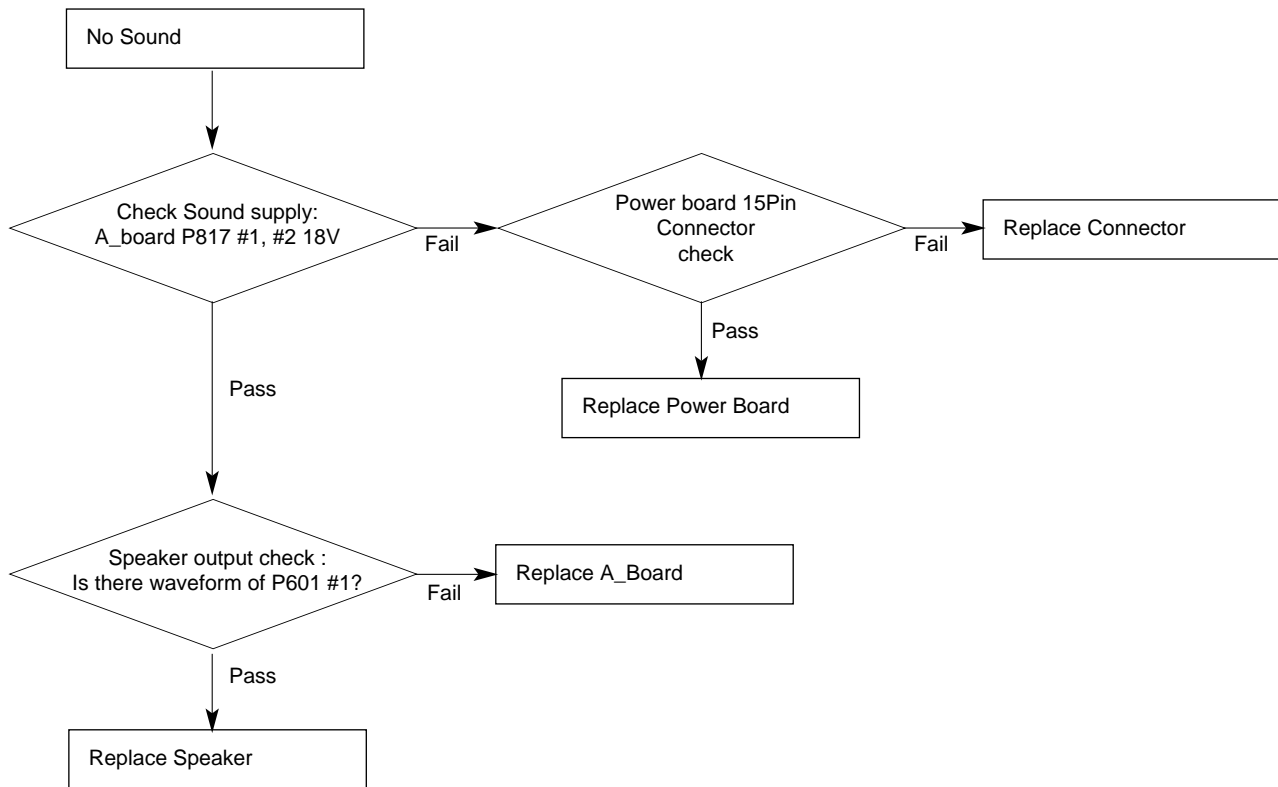
NO	KEY	FUNTION	REAMARK
1	POWER	To turn the TV on or off	
2	POWER ON	To turn the TV on automatically if the power is supplied to the TV. (Use the POWER key to deactivate): It should be deactivated when delivered.	
3	MUTE	To activate the mute function.	
4	P-CHECK	To check TV screen image easily.	Shortcut keys
5	S-CHECK	To check TV screen sound easily	Shortcut keys
6	ARC	To select size of the main screen (Normal, Spectacle, Wide or Zoom)	Shortcut keys
7	CAPTION	Switch to closed caption broadcasting	
8	TXT	To toggle on/off the teletext mode	
9	TV/AV	To select an external input for the TV screen	
10	TURBO SOUND	To start turbo sound	
11	TURBO PICTURE	To start turbo picture	
12	IN-START	To enter adjustment mode when manufacturing the TV sets.	Use the AV key to enter the screen W/B adjustment mode.
		To adjust the screen voltage (automatic): In-start → mute → Adjust → AV(Enter into W/B adjustment mode)	
		W/B adjustment (automatic): After adjusting the screen →W/B adjustment →Exit two times (Adjustment completed)	
13	ADJ	To enter into the adjustment mode. To adjust horizontal line and sub-brightness.	
14	MPX	To select the multiple sound mode (Mono, Stereo or Foreign language)	
15	EXIT	To release the adjustment mode	
16	APC(PSM)	To easily adjust the screen according to surrounding brightness	
17	ASC(SSM)	To easily adjust sound according to the program type	
18	MULTIMEDIA	To check component input	Shortcut keys
19	FRONT-AV	To check the front AV	Shortcut keys
20	CH ±	To move channel up/down or to select a function displayed on the screen.	
21	VOL ±	To adjust the volume or accurately control a specific function.	
22	ENTER	To set a specific function or complete setting.	
23	PIP CH-(OP1)	To move the channel down in the PIP screen. To use as a red key in the teletext mode	
24	PIP CH+(OP2)	To move the channel in the PIP screen To use as a green key in the teletext mode	
25	PIP SWAP(OP3)	To switch between the main and sub screens To use as a yellow key in the teletext mode	
26	PIP INPUT(OP4)	To select the input status in the PIP screen To use as a blue key in the teletext mode	
27	EYE	To set a function that will automatically adjust screen status to match the surrounding brightness so natural color can be displayed.	
28	MENU	To select the functions such as video, voice, function or channel.	
29	IN-STOP	To set the delivery condition status after manufacturing the TV set.	
30	STILL	To halt the main screen in the normal mode, or the sub screen at the PIP screen. Used as a hold key in the teletext mode (Page updating is stopped.)	
31	TIME	Displays the teletext time in the normal mode Enables to select the sub code in the teletext mode	
32	SIZE	Used as the size key in the PIP screen in the normal mode Used as the size key in the teletext mode	
33	MULTI PIP	Used as the index key in the teletext mode (Top index will be displayed if it is the top text.)	
34	POSITION	To select the position of the PIP screen in the normal mode Used as the update key in the teletext mode (Text will be displayed if the current page is updated.)	
35	MODE	Used as Mode in the teletext mode	
36	PIP	To select the simultaneous screen	
37	TILT	To adjust screen tilt	Shortcut keys
38	0~9	To manually select the channel.	



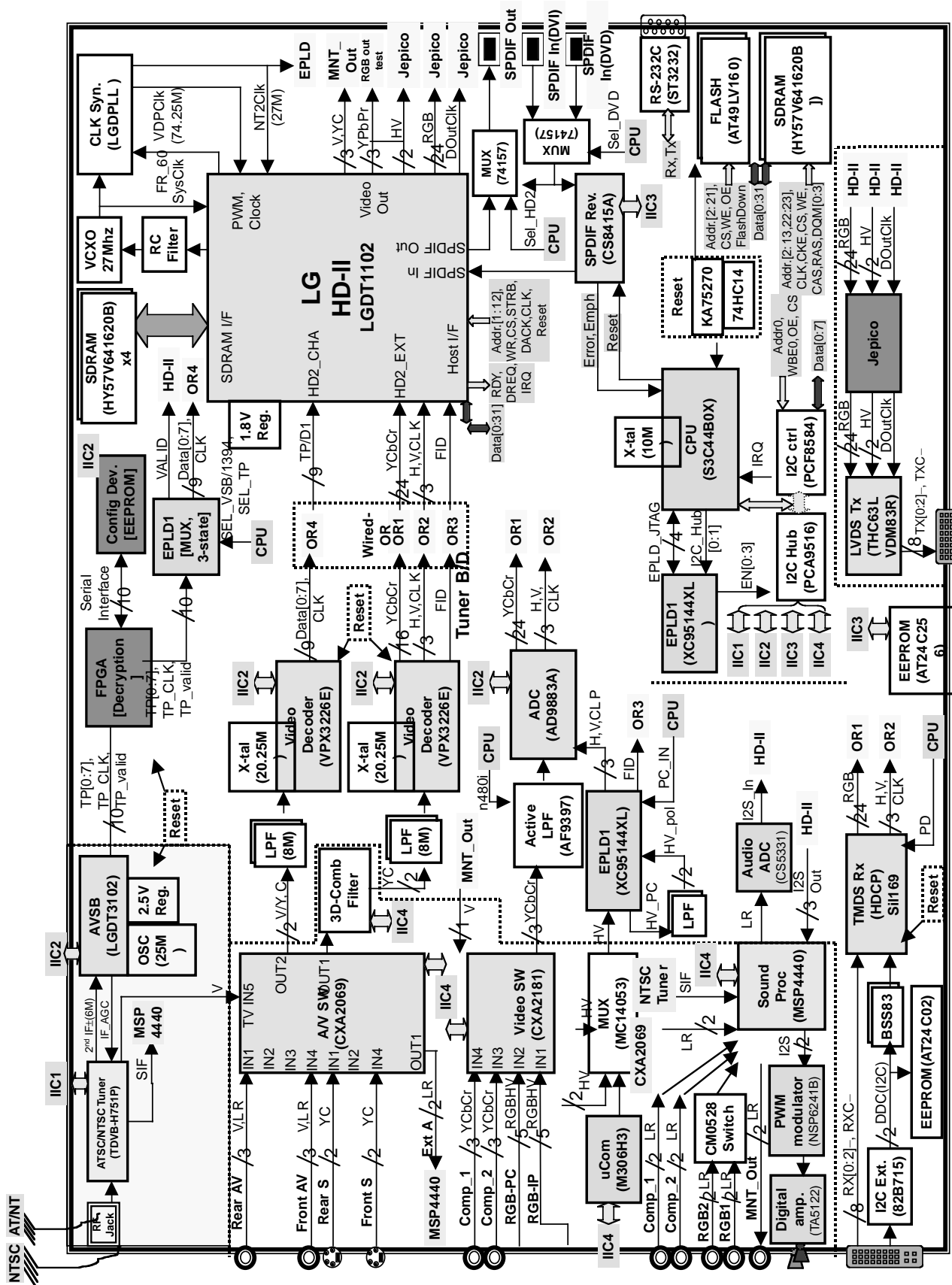
TROUBLESHOOTING







BLOCK DIAGRAM(MAIN)



BLOCK DIAGRAM DESCRIPTION(MAIN)

ATSC/NTSC tuner (TDVB-001P) can receive both terrestrial analog and terrestrial digital signals.

But a NTSC tuner (6700NFNS06C) can receive terrestrial analog only. Therefore if you run two displays at the same time, it is not possible to see two digital channels.

A/V SW (CXA2069) is the IC that takes external input terminal signals and broadcast signals from the tuners and handles them selectively. Audio signals are sent to MSP4450. Video signals are sent to HD-II via two paths - VPX3226E on the upper side is used to handle sub displays, while VPX3225E on the lower side controls the main display.

To the lower side, signals are sent using an expensive 3D-comb filter with Y/C divided.

The video decoder (VPX3226E) is a chip that decodes input signals.

HD-II is a chip that controls nearly all video-related functions, including brightness, sharpness, video formatting and scaling. If digital broadcasting is available, it comes through TP, which can be controlled from HD-II.

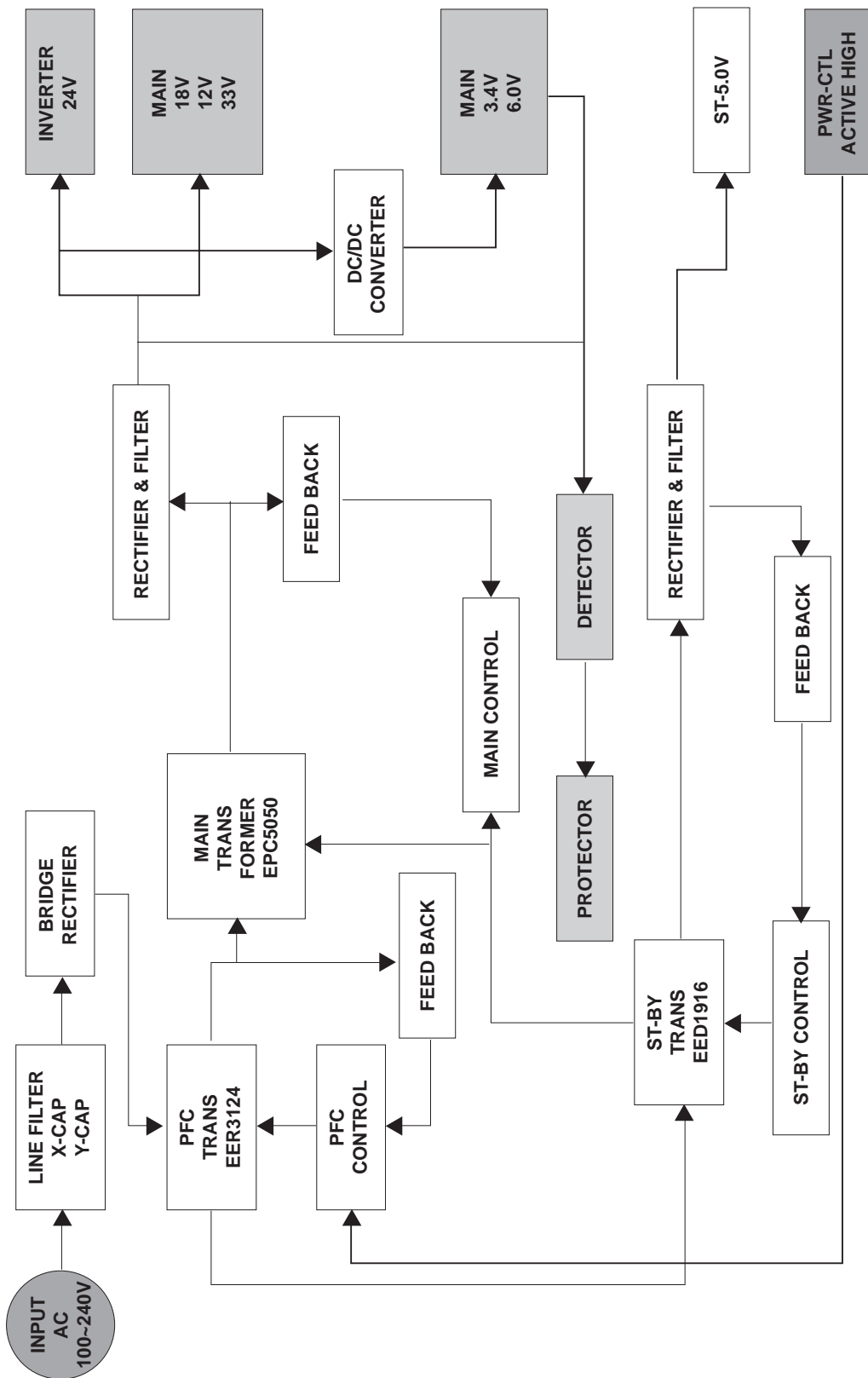
Video SW (CXA2181) is an IC that outputs video signals selectively. The selected one is outputted through ADC (AD9883A) as a digital signal. uCom (M306H3) interfaces with the main CPU and primarily plays the role of controlling power supply, remote controller and timers. Thus, while the set is turned off, it sends time information to uCom for management.

TMDS Tx (Sil169) is the display stage that sends video data to the display medium according to the TMDS protocol, and the TMSD receiver accepts it and outputs display.

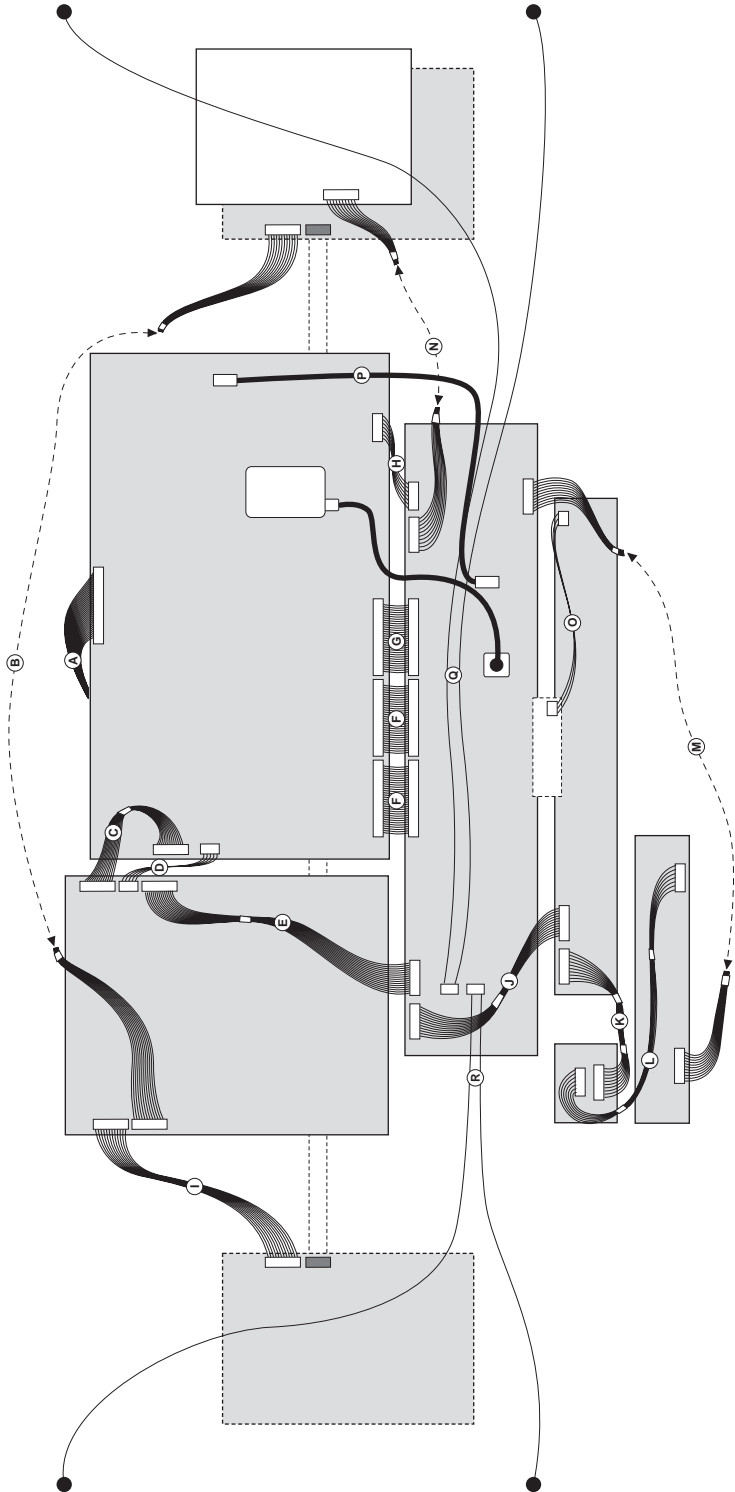
CPU (S3C440BX) is the central processing IC, which controls most of the ICs.

Decryption FPGA(Cyclone EP1C12F256C8) can decrypt the encrypted TP(Digital Tuner stream) to normal TP(non encrypted stream).

BLOCK DIAGRAM(POWER)



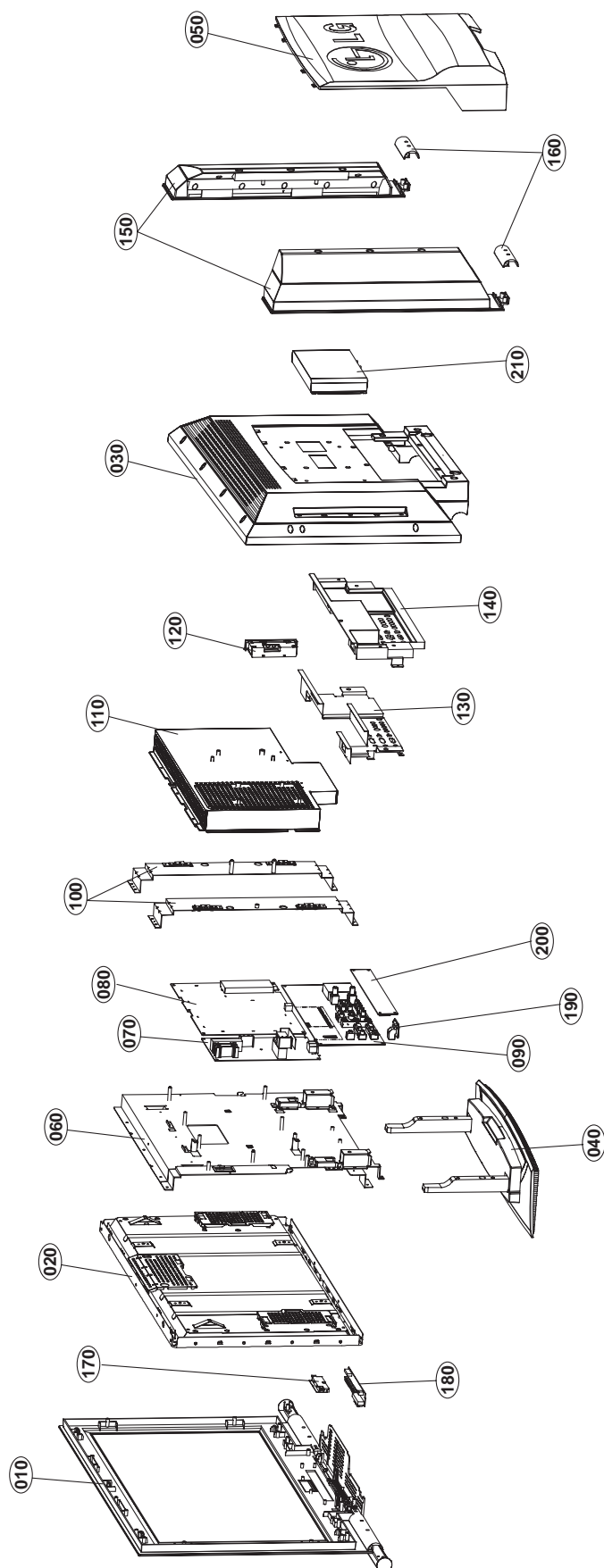
WIRING DIAGRAM



Wiring Part List

	Part No.
A	6631T11020Z
B	6631T20037D
C	6631T25023R
D	6631T25019W
E	6631T25019X
F	6631V10004A
G	6631T11017J
H	6631T25019U
I	6631T20037E
J	6631T20028K
K	6631T20028H
L	6631T20013E
M	6631T20034X
N	6631T25025A
O	6631T12006Q
P	6631T11020V
Q	6631T25023S
R	6631T25023T

EXPLODED VIEW



EXPLODED VIEW PARTS LIST

No.	PART NO.	DESCRIPTION
010	3091TKE023C	CABINET ASSEMBLY, 32LP10 BRAND 3090TKE019 BLACK, FOR COM
020	6304FLP181A	LCD(LIQUID CRYSTAL DISPLAY), LC320W01-A6K3 LG PHILPS TFT COLOR AI ODC
030	3809TKE022A	BACK COVER ASSEMBLY, 32LP10 3808TKE020 DARK GRAY
040	3043TKK214C	TILT SWIVEL ASSEMBLY, 32LP10 . FOR COMMERCIAL
050	3550TKK880A	COVER, 32LP1DC-UA REAR DECO.(FOR COMMERCIAL)
060	4951TKS193C	METAL ASSEMBLY, FRAME 32LP10-DU-C
070	6871TPT303A	PWB(PCB) ASSEMBLY,POWER, DU/DN/DI-32LP10 POWER TOTAL BRAND DU(DCR) COMM
080	3313TD3025A	MAIN TOTAL ASSEMBLY, 32LP1DC BRAND AL-04CA
090	6871TST768A	PWB(PCB) ASSEMBLY,SUB, 32LP1DC SUB TOTAL BRAND COMMERCIAL ANALOG BOARD
100	4951TKK228B	METAL ASSEMBLY, FRAME SIDE R(32LP10)
110	4951TKK228A	METAL ASSEMBLY, FRAME SIDE L(32LP10)
120	4951TKK238A	METAL ASSEMBLY, FRAME REAR 32LP10
130	6871TST931A	PWB(PCB) ASSEMBLY,SUB, 32LP1DC SUB TOTAL BRAND .
140	4950TKA066C	METAL, SHIELD REAR A/V (DU-32LP10C)
150	3551TKK561C	COVER ASSEMBLY, 32LP10-DU-C REAR AV BRACKET
160	3551TKS058A	COVER ASSEMBLY, 32LP10 SPEAKER . GRAY(32LP1D-NA)
170	4950TKA058A	METAL, PLATE AL DECO REAR SPEAKER L (32LP10)
180	6871TSTA69A	PWB(PCB) ASSEMBLY,SUB, TOTAL BRAND LOGO ASSY .
190	6871TST932A	PWB(PCB) ASSEMBLY,SUB, 32LP1DC LED SUB TOTAL BRAND .
200	3141TZZ172A	CHASSIS ASSEMBLY, CONTROL BOX, 32LP1DC-U, LST-4100A, COMMERCIAL, KIMIN

REPLACEMENT PARTS LIST

For Capacitor & Resistors, the characters at 2nd and 3rd digit in the P/No. means as follows;

CC, CX, CK, CN, CH : Ceramic
CQ : Polyester
CE : Electrolytic
CF : Fixed Film

RD : Carbon Film
RS : Metal Oxide Film
RN : Metal Film
RH : CHIP, Metal Glazed(Chip)
RR : Drawing

DATE: 2005. 02. 20.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
MAIN BOARD				
CAPACITOR				
		CD1	0CH3105F946	1UF 16V Z F 2012 R/TP
		CD3	0CH3105F946	1UF 16V Z F 2012 R/TP
		C129	0CH3105F946	1UF 16V Z F 2012 R/TP
		C130	0CH3105F946	1UF 16V Z F 2012 R/TP
		C131	0CH3105F946	1UF 16V Z F 2012 R/TP
		C140	0CH3105F946	1UF 16V Z F 2012 R/TP
		C506	0CH3472K516	4700PF 50V K B 2012 R/TP
		C689	0CH3105F946	1UF 16V Z F 2012 R/TP
		CD36	0CH3105F946	1UF 16V Z F 2012 R/TP
		C108	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C109	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C1205	0CH6150K416	15PF 50V J NP0 2012 R/TP
		C1206	0CH6150K416	15PF 50V J NP0 2012 R/TP
		C1350	0CH6080K116	8PF 50V D NP0 2012 R/TP
		C306	0CH6030K116	3PF 50V D NP0 2012 R/TP
		C307	0CH6030K116	3PF 50V D NP0 2012 R/TP
		C359	0CH6030K116	3PF 50V D NP0 2012 R/TP
		C360	0CH6030K116	3PF 50V D NP0 2012 R/TP
		C450	0CH6080K116	8PF 50V D NP0 2012 R/TP
		C820	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C821	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C856	0CH6221K416	220PF 50V J NP0 2012 R/TP
		C865	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C866	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C1310	0CH6331K416	330PF 50V J NP0 2012 R/TP
		C1330	0CH6050K116	5PF 50V D NP0 2012 R/TP
		C1331	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C1336	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C1351	0CH6560K416	56PF 50V J NP0 2012 R/TP
		C142	0CH6221K416	220PF 50V J NP0 2012 R/TP
		C143	0CH6331K416	330PF 50V J NP0 2012 R/TP
		C636	0CH6050K116	5PF 50V D NP0 2012 R/TP
		C684	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C686	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C817	0CH6561K416	560PF 50V J NP0 2012 R/TP
		C100	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C101	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C102	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C103	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C104	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C105	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C106	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C107	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C111	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C112	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C116	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C118	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C119	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C120	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C122	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C126	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C127	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C128	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1302	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1305	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP

DATE: 2005. 02. 20.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C1306	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1313	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1326	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C133	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1400	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C201	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C202	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C203	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C204	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C205	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C207	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C208	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C209	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C210	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C211	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C212	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C214	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C215	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C220	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C221	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C222	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C223	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C224	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C225	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C226	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C227	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C228	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C229	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C230	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C231	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C232	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C233	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C234	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C235	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C236	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C237	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C239	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C240	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C242	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C243	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C247	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C248	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C249	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C250	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C251	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C252	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C253	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C254	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C255	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C256	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C258	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C259	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C260	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C261	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C404	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C423	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C425	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C431	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C432	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C500	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C505	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C507	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C508	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C509	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C551	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C602	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C615	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C627	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C629	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C650	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C663	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C680	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C681	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C800	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C805	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C808	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C811	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C828	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C831	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C836	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C838	0CH2334F566	0.33UF 16V 10% X7R 2012 R/TP
		C839	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C841	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C843	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C845	0CH2334F566	0.33UF 16V 10% X7R 2012 R/TP
		C846	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C848	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C850	0CH2334F566	0.33UF 16V 10% X7R 2012 R/TP
		C851	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C883	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C920	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C921	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C923	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C925	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C926	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		CD12	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		CD15	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		CD18	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		CD20	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		CD27	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		CD4	0CK225DH94A	"2.2UF 2012 25V 80%,-20% F(Y5)"
		CD7	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C110	0CH5821K416	820PF 50V 5% NP0 2012 R/TP
		C809	0CH5100K416	10PF 50V 5% NP0 2012 R/TP
		C810	0CH5100K416	10PF 50V 5% NP0 2012 R/TP
		C886	0CH6470K416	47PF 50V 5% NP0 2012 R/TP
		C888	0CH6470K416	47PF 50V 5% NP0 2012 R/TP
		C890	0CH6470K416	47PF 50V 5% NP0 2012 R/TP
		C1309	0CH6470K416	47PF 50V 5% NP0 2012 R/TP
		C825	0CE227DK618	220UF STD 50V M FL TP5
		C829	0CE227DK618	220UF STD 50V M FL TP5
		C1201	0CH8106F691	10UF 16V 20% 105STD (CYL) R/
		C124	0CH8106F691	10UF 16V 20% 105STD (CYL) R/
		C125	0CH8106F691	10UF 16V 20% 105STD (CYL) R/
		C1300	0CH8106F691	10UF 16V 20% 105STD (CYL) R/
		C1301	0CH8226F691	22UF 16V 20% 105STD (CYL) R/

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		C1303	0CH8106F691	10UF 16V 20% 105STD (CYL) R/
		C1304	0CH8226F691	22UF 16V 20% 105STD (CYL) R/
		C1307	0CH8226F691	22UF 16V 20% 105STD (CYL) R/
		C132	0CH8105K691	1UF 50V 20% 105STD (CYL) R/T
		C1320	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C1324	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C1327	0CH8226F691	22UF 16V 20% 105STD (CYL) R/
		C1328	0CH8106F691	10UF 16V 20% 105STD (CYL) R/
		C1337	0CH8226F691	22UF 16V 20% 105STD (CYL) R/
		C1352	0CE476WK6DC	47UF MVK 50V 20% R/TP(SMD) S
		C1353	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C1355	0CE476WK6DC	47UF MVK 50V 20% R/TP(SMD) S
		C1356	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C1401	0CE476WK6DC	47UF MVK 50V 20% R/TP(SMD) S
		C1406	0CH8226F691	22UF 16V 20% 105STD (CYL) R/
		C1407	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C1409	0CH8476F691	47UF 16V 20% 105STD (CYL) R/
		C1410	0CE476WK6DC	47UF MVK 50V 20% R/TP(SMD) S
		C1414	0CH8477F691	470UF MVK 16V 20% SMD R/TP(S)
		C1415	0CH8477F691	470UF MVK 16V 20% SMD R/TP(S)
		C206	0CH8226F691	22UF 16V 20% 105STD (CYL) R/
		C302	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C312	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C346	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C364	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C368	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C371	0CH8106F691	10UF 16V 20% 105STD (CYL) R/
		C384	0CH8106F691	10UF 16V 20% 105STD (CYL) R/
		C386	0CH8106F691	10UF 16V 20% 105STD (CYL) R/
		C393	0CH8226F691	22UF 16V 20% 105STD (CYL) R/
		C394	0CH8476F691	47UF 16V 20% 105STD (CYL) R/
		C397	0CH8226F691	22UF 16V 20% 105STD (CYL) R/
		C398	0CH8476F691	47UF 16V 20% 105STD (CYL) R/
		C406	0CH8106F691	10UF 16V 20% 105STD (CYL) R/
		C407	0CH8476F691	47UF 16V 20% 105STD (CYL) R/
		C416	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C420	0CH8106F691	10UF 16V 20% 105STD (CYL) R/
		C422	0CH8476F691	47UF 16V 20% 105STD (CYL) R/
		C424	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C430	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C442	0CH8226F691	22UF 16V 20% 105STD (CYL) R/
		C504	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) S
		C550	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C555	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C601	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C622	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C624	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C626	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C628	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C637	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C639	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C643	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C677	0CH8476F691	47UF 16V 20% 105STD (CYL) R/
		C801	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C802	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C804	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C806	0CE476VK6DC	47UF MV 50V 20% R/TP(SMD) SM
		C807	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C812	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C813	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C814	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C815	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) S

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		C827	0CE476VK6DC	47UF MV 50V 20% R/TP(SMD) SM
		C830	0CE476VK6DC	47UF MV 50V 20% R/TP(SMD) SM
		C833	0CH8477F691	470UF MVK 16V 20% SMD R/TP(S
		C834	0CH8477F691	470UF MVK 16V 20% SMD R/TP(S
		C837	0CH8476F691	47UF 16V 20% 105STD (CYL) R/
		C840	0CH8476F691	47UF 16V 20% 105STD (CYL) R/
		C842	0CH8476F691	47UF 16V 20% 105STD (CYL) R/
		C844	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C847	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C849	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C852	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C869	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
		C875	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) S
		C878	0CH8476F691	47UF 16V 20% 105STD (CYL) R/
		C881	0CH8226F691	22UF 16V 20% 105STD (CYL) R/
		C884	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C918	0CH8106F691	10UF 16V 20% 105STD (CYL) R/
		C919	0CH8476F691	47UF 16V 20% 105STD (CYL) R/
		C922	0CH8106F691	10UF 16V 20% 105STD (CYL) R/
		CD2	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		CD43	0CE107WH6DC	100UF MVK 25V 20% R/TP(SMD)
		CD44	0CH8106F691	10UF 16V 20% 105STD (CYL) R/
		CD47	0CE107WH6DC	100UF MVK 25V 20% R/TP(SMD)
DIODES				
		D601	0DRSE00018A	SRV05-4.TC SEMTECH R/TP SOT2
		D602	0DRSE00018A	SRV05-4.TC SEMTECH R/TP SOT2
		D603	0DRSE00018A	SRV05-4.TC SEMTECH R/TP SOT2
		D604	0DRSE00018A	SRV05-4.TC SEMTECH R/TP SOT2
		D811	0DS181009AA	KDS181 TP KEC SOT-23 80V 3
		D100	0DD184009AA	KDS184 TP KEC - 85V - - - 30
		D410	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D600	0DD184009AA	KDS184 TP KEC - 85V - - - 30
		D611	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D612	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D613	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D614	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D615	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D616	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D617	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D618	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D800	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D801	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D802	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		ZD1301	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD1302	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD1303	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD1304	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD1305	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
IC				
		IC500	0ICB841500D	CS8415AR-CSR 28PIN SOIC R/TP
		IC200	0ICTMLG009A	LGDT1102 HD2 LG IC SBGA-432
		IC315	0ICTMLG013A	LGDT1901A LG IC 24P SSOP TRA
		IC607	0ICTMLG014A	LGDT3302 LG IC 100P TQFP TRA
		IC101	0IZZTS2667A	ATMEL 25P 32LP1DC FLASH MEMO
		IC102	0IZZTS2668A	ATMEL 25P 32LP1DC FLASH MEM
		IC820	0IKE704200J	KIA7042AF SOT-89 TP 4.2V VOL
		IC105	0IKE702900G	KIA7029AF SOT-89 TP 2.9V VOL
		IC300	0ILNRMN005A	VPX3226E MICRONAS 44 QFP TRA

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		IC308	0ILNRMN005A	VPX3226E MICRONAS 44 QFP TRA
		IC103	0IMMRSS041D	K4S641632H-TL75 SAMSUNG ELEC
		IC104	0IMMRSS041D	K4S641632H-TL75 SAMSUNG ELEC
		IC107	0IAL242561B	AT24C256W-10SI-2.7V 8P SOIC
		IC210	0IMMRSS041D	K4S641632H-TL75 SAMSUNG ELEC
		IC211	0IMMRSS041D	K4S641632H-TL75 SAMSUNG ELEC
		IC212	0IMMRSS041D	K4S641632H-TL75 SAMSUNG ELEC
		IC213	0IMMRSS041D	K4S641632H-TL75 SAMSUNG ELEC
		IC601	0IMMRAL014B	AT24C02N-10SI-2.7 ATMEL 8P S
		IC803	0IMMR00037A	"M306H3FCFP RENESAS 116P,LQFP"
		IC830	0IMCRAL006A	AT24C16AN-10SI-2.7 ATMEL 8P
		ICD2	0IMMRAT006A	EPCS4S18N(PB FREE) ALTERA 8P
		IC100	0IMCRSS016A	S3C44BOX01-EDRO SAMSUNG ELEC
		IC108	0IMCRPH026A	PCA9516PW PHILIPS 16P TSSOP
		IC109	0IMCRPH026A	PCA9516PW PHILIPS 16P TSSOP
		IC110	0IMCRSG010A	ST3232CDR SGS-THOMSON SOP16
		IC314	0IMCRXL004A	XC95288XL-10TQG144C XILINX 1
		IC316	0IMCRCY002A	CY2309SC-1HT CYPRESS SOIC 16
		IC603	0IMCRS5003A	SIL169CT100 SILICON IMAGE 10
		IC900	0IMCRJP001A	J-L003 JEPICO 176P QFP TRAY
		IC322	0IMI623200B	"M62320FP,I/O EXPANDER 16P SO"
		IC313	0IPRP00548A	"CY25560SXT,LF CYPRESS 8P,SO"
		IC301	0IPRPAD008B	"AD9883AKST(Z)-110,LF ANALOG"
		IC450	0ITH638300B	THC63LVD83R THINE ELECTRONI
		ICF1	0IPRPAT002B	EP1C12F256C8 ALTERA 256P/BGA
		IC602	0IPH827150A	P82B715T 8SOP R/TP IIC EXTEN
		IC400	0IMCRSJ001A	SC1565IST-1.8 SEMTECH 3P SOT
		IC401	0IPRPML001A	MIC39100 MICREL 3P SOT223 R/
		IC606	0IMCRSJ001A	SC1565IST-1.8 SEMTECH 3P SOT
		IC800	0IMCRSH001A	"PQ05DZ1U SHARP 5, SMD TYPE R"
		IC801	0IMCRSH001A	"PQ05DZ1U SHARP 5, SMD TYPE R"
		IC802	0IMCRSH001A	"PQ05DZ1U SHARP 5, SMD TYPE R"
		IC910	0IPRPML001A	MIC39100 MICREL 3P SOT223 R/
		ICD3	0IMCRFA020A	RC1587DT_36 FAIRCHILD 3P TO2
		IC402	0IRH033200A	BA033FP-E2 MOLD-3 TP REGULAT
		IC805	0IRH033200A	BA033FP-E2 MOLD-3 TP REGULAT
		IC106	0IPH741400E	74HC14D 14SOP TP SHITTER TRI
		IC503	0ITO741570C	"TC74LCX157FT 16P,TSSOP TP QU"
		IC504	0IMCRFA014A	74F04SCX FAIRCHILD 14P SOIC
COIL & CORE & FILTER				
		L809	6140VB0004B	26UH 1UEWPHY 22.5TURN YL-9N
		L810	6140VB0004B	26UH 1UEWPHY 22.5TURN YL-9N
		B315	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		B800	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		LD11	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		LD2	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		LD8	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		R408	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		B1	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		B2	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		B3	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		B4	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		B5	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		B6	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		B7	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L802	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L803	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L804	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L816	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L819	6210TCE001G	HH-1M3216-501 CERATEC 3216MM

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		L820	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		LD1	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		LD3	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		LD4	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		LD5	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		LD6	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		LD7	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		R490	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		F400	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A
		F401	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A
		F402	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A
		F403	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A
		F404	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A
		F405	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A
		F407	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A
		F408	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A
		F410	6200VJT006A	STC222D NIIGATA 50VOLT 4A 22
		F411	6200VJT006A	STC222D NIIGATA 50VOLT 4A 22
		F800	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A
		F801	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A
		F810	6200VJT006A	STC222D NIIGATA 50VOLT 4A 22
		IC302	6200J00011A	H354LAI-K5202 TOKO R/TP BAND
		IC303	6200J00011A	H354LAI-K5202 TOKO R/TP BAND
INDUCTOR				
		B200	0LCML00002B	MLB-321611-0050P-N1 6A MAG L
		B310	0LCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B311	0LCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B400	0LCML00002B	MLB-321611-0050P-N1 6A MAG L
		B402	0LCML00002B	MLB-321611-0050P-N1 6A MAG L
		B403	0LCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B550	0LCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B551	0LCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B601	0LCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B612	0LCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B620	0LCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B900	0LCML00002A	MLB-321611-0120A-N1 MAG LAYE
		L801	0LC6832101A	6.8UH 10% 3216 R/TC FI-C3216
		L808	0LC6832101A	6.8UH 10% 3216 R/TC FI-C3216
		B303	0LCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B304	0LCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B305	0LCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B306	0LCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B307	0LCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B312	0LCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B313	0LCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B314	0LCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B411	0LCML00002B	MLB-321611-0050P-N1 6A MAG L
		B412	0LCML00002B	MLB-321611-0050P-N1 6A MAG L
		B413	0LCML00002B	MLB-321611-0050P-N1 6A MAG L
		B414	0LCML00002B	MLB-321611-0050P-N1 6A MAG L
		B510	0LCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B600	0LCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B602	0LCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B603	0LCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B611	0LCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B801	0LCML00002B	MLB-321611-0050P-N1 6A MAG L
		B802	0LCML00002B	MLB-321611-0050P-N1 6A MAG L
		B803	0LCML00002B	MLB-321611-0050P-N1 6A MAG L
		B804	0LCML00002B	MLB-321611-0050P-N1 6A MAG L
		B805	0LCML00002B	MLB-321611-0050P-N1 6A MAG L

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		B806	0LCML00002B	MLB-321611-0050P-N1 6A MAG L
		B901	0LCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B902	0LCML00002B	MLB-321611-0050P-N1 6A MAG L
		L308	0LC6832101A	6.8UH 10% 3216 R/TC FI-C3216
		L309	0LC6832101A	6.8UH 10% 3216 R/TC FI-C3216
		L800	0LC6832101A	6.8UH 10% 3216 R/TC FI-C3216
TRANSISTOR				
		IC321	0TF492509AA	SI4925DY TP TEMIC 30V 6.1A
		IC460	0TF492509AA	SI4925DY TP TEMIC 30V 6.1A
		Q100	0TR102008AA	KRA102S R/TP KEC SOT23 CHIP
		Q101	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q102	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q411	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q552	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q553	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q554	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q800	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q802	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q804	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q811	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q308	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q309	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q310	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q311	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q410	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q600	0TR830009BA	BSS83 TP PHILIPS NON N-CHANN
		Q601	0TR830009BA	BSS83 TP PHILIPS NON N-CHANN
		Q602	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q803	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q810	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
RESISTORS				
		R109	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1117	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1118	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1119	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R115	0RH1003D622	100K 1/10W 5 D.R/TP
		R129	0RH3901D622	3.9K 1/10W 5 D.R/TP
		R130	0RH3901D622	3.9K 1/10W 5 D.R/TP
		R167	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1802	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1805	0RH1000D622	100 1/10W 5 D.R/TP
		R1806	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R183	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R184	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R185	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R186	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R187	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R188	0RH3901D622	3.9K 1/10W 5 D.R/TP
		R218	0RH1000D622	100 1/10W 5 D.R/TP
		R227	0RH3900D622	390 1/10W 5 D.R/TP
		R233	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R244	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R257	0RH2200D622	220 1/10W 5 D.R/TP
		R258	0RH2200D622	220 1/10W 5 D.R/TP
		R261	0RH2200D622	220 1/10W 5 D.R/TP
		R301	0RH4702D622	47K 1/10W 5 D.R/TP
		R352	0RH4702D622	47K 1/10W 5 D.R/TP
		R384	0RH4701D622	4.7K 1/10W 5 D.R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R396	0RH0682D622	68 1/10W 5 D.R/TP
		R561	0RH1000D622	100 1/10W 5 D.R/TP
		R562	0RH1000D622	100 1/10W 5 D.R/TP
		R563	0RH1000D622	100 1/10W 5 D.R/TP
		R564	0RH0332D622	33 1/10W 5 D.R/TP
		R565	0RH0332D622	33 1/10W 5 D.R/TP
		R603	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R604	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R605	0RH0332D622	33 1/10W 5 D.R/TP
		R606	0RH0332D622	33 1/10W 5 D.R/TP
		R616	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R641	0RH3300D622	330 1/10W 5 D.R/TP
		R685	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R807	0RH1000D622	100 1/10W 5 D.R/TP
		R808	0RH1000D622	100 1/10W 5 D.R/TP
		R811	0RH2202D622	22K 1/10W 5 D.R/TP
		R813	0RH6201D622	6.2K 1/10W 5 D.R/TP
		R814	0RH3301D622	3.3K 1/10W 5 D.R/TP
		R816	0RH1202D622	12K 1/10W 5 D.R/TP
		R818	0RH4700D622	470 1/10W 5 D.R/TP
		R825	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R826	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R835	0RH1000D622	100 1/10W 5 D.R/TP
		R836	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R839	0RH1000D622	100 1/10W 5 D.R/TP
		R844	0RH5601D622	5.6K 1/10W 5 D.R/TP
		R845	0RH2001D622	2.0K 1/10W 5 D.R/TP
		R851	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R852	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R854	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R869	0RH4702D622	47K 1/10W 5 D.R/TP
		R872	0RH1000D622	100 1/10W 5 D.R/TP
		R875	0RH4702D622	47K 1/10W 5 D.R/TP
		RD9	0RH1000D622	100 1/10W 5 D.R/TP
		RM800	0RH5100D622	510 1/10W 5 D.R/TP
		RM801	0RH2001D622	2.0K 1/10W 5 D.R/TP
		RM802	0RH2001D622	2.0K 1/10W 5 D.R/TP
		R105	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1120	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R113	0RH1000D622	100 1/10W 5 D.R/TP
		R114	0RH1000D622	100 1/10W 5 D.R/TP
		R118	0RH1000D622	100 1/10W 5 D.R/TP
		R120	0RH1000D622	100 1/10W 5 D.R/TP
		R126	0RH1000D622	100 1/10W 5 D.R/TP
		R131	0RH3301D622	3.3K 1/10W 5 D.R/TP
		R1329	0RH5600D622	560 1/10W 5 D.R/TP
		R133	0RH3301D622	3.3K 1/10W 5 D.R/TP
		R1334	0RH0272D622	27 1/10W 5 D.R/TP
		R1335	0RH0682D622	68 1/10W 5 D.R/TP
		R135	0RH6201D622	6.2K 1/10W 5 D.R/TP
		R1356	0RH4300D622	CHIP 430-J 1/10 W
		R1357	0RH4300D622	CHIP 430-J 1/10 W
		R1358	0RH4300D622	CHIP 430-J 1/10 W
		R136	0RH6201D622	6.2K 1/10W 5 D.R/TP
		R1360	0RH4702D622	47K 1/10W 5 D.R/TP
		R1361	0RH1000D622	100 1/10W 5 D.R/TP
		R1364	0RH1000D622	100 1/10W 5 D.R/TP
		R1365	0RH1000D622	100 1/10W 5 D.R/TP
		R1366	0RH1000D622	100 1/10W 5 D.R/TP
		R1367	0RH1000D622	100 1/10W 5 D.R/TP
		R1368	0RH5600D622	560 1/10W 5 D.R/TP
		R1369	0RH1202D622	12K 1/10W 5 D.R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R1370	0RH1202D622	12K 1/10W 5 D.R/TP
		R1371	0RH3300D622	330 1/10W 5 D.R/TP
		R1372	0RH5101D622	5.1K 1/10W 5 D.R/TP
		R1373	0RH2001D622	2.0K 1/10W 5 D.R/TP
		R1374	0RH4702D622	47K 1/10W 5 D.R/TP
		R1375	0RH4702D622	47K 1/10W 5 D.R/TP
		R1376	0RH1202D622	12K 1/10W 5 D.R/TP
		R1377	0RH1202D622	12K 1/10W 5 D.R/TP
		R1378	0RH3300D622	330 1/10W 5 D.R/TP
		R1379	0RH3300D622	330 1/10W 5 D.R/TP
		R1380	0RH1202D622	12K 1/10W 5 D.R/TP
		R1381	0RH1202D622	12K 1/10W 5 D.R/TP
		R1383	0RH1000D622	100 1/10W 5 D.R/TP
		R139	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R140	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R144	0RH3301D622	3.3K 1/10W 5 D.R/TP
		R148	0RH3300D622	330 1/10W 5 D.R/TP
		R149	0RH1000D622	100 1/10W 5 D.R/TP
		R150	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R176	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R200	0RH3900D622	390 1/10W 5 D.R/TP
		R221	0RH0752D622	75 1/10W 5 D.R/TP
		R222	0RH0752D622	75 1/10W 5 D.R/TP
		R223	0RH0752D622	75 1/10W 5 D.R/TP
		R224	0RH0512D622	51 1/10W 5 D.R/TP
		R225	0RH0512D622	51 1/10W 5 D.R/TP
		R226	0RH0512D622	51 1/10W 5 D.R/TP
		R2300	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R2301	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R2302	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R2303	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R2306	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R2308	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R2312	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R234	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R248	0RH0332D622	33 1/10W 5 D.R/TP
		R254	0RH2200D622	220 1/10W 5 D.R/TP
		R302	0RH4702D622	47K 1/10W 5 D.R/TP
		R303	0RH4702D622	47K 1/10W 5 D.R/TP
		R310	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R315	0RH1000D622	100 1/10W 5 D.R/TP
		R316	0RH2701D622	2.7K 1/10W 5 D.R/TP
		R329	0RH1602D622	16K 1/10W 5 TA
		R331	0RH3300D622	330 1/10W 5 D.R/TP
		R332	0RH4702D622	47K 1/10W 5 D.R/TP
		R333	0RH4702D622	47K 1/10W 5 D.R/TP
		R334	0RH4702D622	47K 1/10W 5 D.R/TP
		R335	0RH4702D622	47K 1/10W 5 D.R/TP
		R336	0RH4702D622	47K 1/10W 5 D.R/TP
		R337	0RH4702D622	47K 1/10W 5 D.R/TP
		R338	0RH4702D622	47K 1/10W 5 D.R/TP
		R339	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R340	0RH0102D622	10 1/10W 5 D.R/TP
		R345	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R358	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R367	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R371	0RH6802D622	68K 1/10W 5 D.R/TP
		R397	0RH0272D622	27 1/10W 5 D.R/TP
		R492	0RH3300D622	330 1/10W 5 D.R/TP
		R502	0RH1201D622	1.2K 1/10W 5 D.R/TP
		R503	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R505	0RH4702D622	47K 1/10W 5 D.R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R600	0RH1000D622	100 1/10W 5 D.R/TP
		R609	0RH0332D622	33 1/10W 5 D.R/TP
		R610	0RH0332D622	33 1/10W 5 D.R/TP
		R612	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R613	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R618	0RH1000D622	100 1/10W 5 D.R/TP
		R619	0RH1000D622	100 1/10W 5 D.R/TP
		R625	0RH1000D622	100 1/10W 5 D.R/TP
		R626	0RH1000D622	100 1/10W 5 D.R/TP
		R628	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R630	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R632	0RH0102D622	10 1/10W 5 D.R/TP
		R635	0RH3300D622	330 1/10W 5 D.R/TP
		R640	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R642	0RH3300D622	330 1/10W 5 D.R/TP
		R663	0RH3001D622	3.0K 1/10W 5 D.R/TP
		R666	0RH0512D622	51 1/10W 5 D.R/TP
		R670	0RH1004D622	1.0M 1/10W 5 D.R/TP
		R801	0RH0102D622	10 1/10W 5 D.R/TP
		R805	0RH0822D622	82 1/10W 5 D.R/TP
		R812	0RH4700D622	470 1/10W 5 D.R/TP
		R815	0RH4700D622	470 1/10W 5 D.R/TP
		R827	0RH1000D622	100 1/10W 5 D.R/TP
		R828	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R829	0RH1000D622	100 1/10W 5 D.R/TP
		R830	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R832	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R838	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R840	0RH1000D622	100 1/10W 5 D.R/TP
		R841	0RH1000D622	100 1/10W 5 D.R/TP
		R842	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R843	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R846	0RH1000D622	100 1/10W 5 D.R/TP
		R850	0RH1000D622	100 1/10W 5 D.R/TP
		R855	0RH1000D622	100 1/10W 5 D.R/TP
		R856	0RH1000D622	100 1/10W 5 D.R/TP
		R857	0RH1000D622	100 1/10W 5 D.R/TP
		R858	0RH1000D622	100 1/10W 5 D.R/TP
		R859	0RH1000D622	100 1/10W 5 D.R/TP
		R860	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R861	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R865	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R867	0RH1000D622	100 1/10W 5 D.R/TP
		R870	0RH1000D622	100 1/10W 5 D.R/TP
		R871	0RH1000D622	100 1/10W 5 D.R/TP
		R873	0RH1000D622	100 1/10W 5 D.R/TP
		R877	0RH3300D622	330 1/10W 5 D.R/TP
		R880	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R881	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R882	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R903	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R904	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R905	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R921	0RH2001D622	2.0K 1/10W 5 D.R/TP
		R962	0RH0332D622	33 1/10W 5 D.R/TP
		RD25	0RH4702D622	47K 1/10W 5 D.R/TP
		RD26	0RH4702D622	47K 1/10W 5 D.R/TP
		AR100	0RRZVTA001C	4.7K OHM 1 / 16 W 1608 5% R/
		AR101	0RRZVTA001C	4.7K OHM 1 / 16 W 1608 5% R/
		AR400	0RHZTCZ001E	RCA SMART 470OHM 1/16 W 5% 32
		AR401	0RHZTCZ001E	RCA SMART 470OHM 1/16 W 5% 32
		AR402	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		AR403	0RHZTCZ001E	RCA SMART 470OHM 1/16 W 5% 32
		AR404	0RHZTCZ001E	RCA SMART 470OHM 1/16 W 5% 32
		AR405	0RHZTCZ001E	RCA SMART 470OHM 1/16 W 5% 32
		AR406	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP
		AR407	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP
		AR408	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP
		AR600	0RHZTCZ001A	RCA SMART 100OHM 1/16 W 5% 3
		AR601	0RHZTCZ001A	RCA SMART 100OHM 1/16 W 5% 3
		AR602	0RHZTCZ001A	RCA SMART 100OHM 1/16 W 5% 3
		AR603	0RHZTCZ001A	RCA SMART 100OHM 1/16 W 5% 3
		AR604	0RHZTCZ001A	RCA SMART 100OHM 1/16 W 5% 3
		AR611	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP
		AR612	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP
		AR613	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP
		R496	0RS0332J609	33 1W 5 TA52
		R107	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R127	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1308	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R1326	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R1362	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R1363	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R137	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00%
		R138	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00%
		R1396	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R152	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R153	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R155	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R177	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R178	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1800	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R192	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R193	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R194	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R195	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R197	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R208	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R210	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R212	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R228	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R243	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R247	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R249	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R251	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R259	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R260	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R262	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R263	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R264	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R267	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R269	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R271	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R273	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R275	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R354	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R361	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R362	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R385	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R389	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R391	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R392	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R395	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R398	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R912	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R913	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R914	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R915	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R916	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R917	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R918	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R919	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R920	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		RD1	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		RD16	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD17	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD18	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD19	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD2	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		RD20	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD21	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD22	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD23	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD24	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		RD29	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD3	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		RD30	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD31	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD32	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD33	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD34	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD35	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD36	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD37	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD38	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD4	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		RD401	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD42	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD44	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD5	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD6	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD7	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD8	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
OTHERS				
		X821	6202TTB004E	HC-49/U KONY RADIAL 10MHZ 30
		JR300	6612B00016C	MJ-657PP-8-SD-LED ARIN TECH
		LED600	0DL233309AC	SAM2333 TP KWANG GREEN/RED G
		IC312	6204B60001B	VCXO BUBANG 27MHZ +/- 100 PP
		X601	6204B47985K	BMS-873R BUBANG 25MHZ +/- 50
		X900	6204B47985H	SCO-103 SUNNY 74.25MHZ +/- 5
		XD1	6204B60001B	VCXO BUBANG 27MHZ +/- 100 PP
		X820	6212AC2329A	CH-206 SUNNY 32.768KHZ +/- 2
		X100	6212AB2015E	HC-49/SM BUBANG 10.0MHZ +/-
		X300	6202VDT002E	SX-1SMD SUNNY RADIAL 2025000
		X301	6202VDT002E	SX-1SMD SUNNY RADIAL 2025000
		SW100	6600VR1004A	SKHMPW 5P CHIP TACT J-ALPS N
		TU101	6700NFS04F	TDVL-H751P LG INOTEK MULTI B
COMMERCIAL BOARD				
CAPACITOR				
		C662	0CH3223K516	22000PF 50V K B 2012 R/TP
		C839	0CH3105F946	1UF 16V Z F 2012 R/TP
		C658	0CH3105F946	1UF 16V Z F 2012 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C661	0CH3105F946	1UF 16V Z F 2012 R/TP
		C972	0CH3222K516	2200PF 50V K B 2012 R/TP
		C973	0CH3222K516	2200PF 50V K B 2012 R/TP
		C974	0CH3222K516	2200PF 50V K B 2012 R/TP
		C975	0CH3222K516	2200PF 50V K B 2012 R/TP
		C976	0CH3222K516	2200PF 50V K B 2012 R/TP
		C977	0CH3222K516	2200PF 50V K B 2012 R/TP
		C978	0CH3222K516	2200PF 50V K B 2012 R/TP
		C979	0CH3222K516	2200PF 50V K B 2012 R/TP
		C106	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C107	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C108	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C110	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C1817	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C1820	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C863	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C864	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C871	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C872	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C885	0CH6561K416	560PF 50V J NP0 2012 R/TP
		C945	0CH6471K416	470F 50V J NP0 2012 R/TP
		C989	0CH6560K416	56PF 50V J NP0 2012 R/TP
		C990	0CH6560K416	56PF 50V J NP0 2012 R/TP
		C130	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C131	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C132	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C851	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C852	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C855	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C856	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C882	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C883	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C905	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C936	0CH6150K416	15PF 50V J NP0 2012 R/TP
		C944	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C947	0CH6150K416	15PF 50V J NP0 2012 R/TP
		C111	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C120	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C122	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C123	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C124	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1801	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1803	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1804	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1805	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1807	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1811	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1815	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1818	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1863	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1864	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1866	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1867	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C601	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C603	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C605	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C606	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C607	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C609	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C610	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C646	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C647	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C832	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C837	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C843	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C844	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C845	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C846	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C847	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C848	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C853	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C854	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C860	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C870	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C899	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C900	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C901	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C939	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C942	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C943	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C958	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C959	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C960	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C961	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C962	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C963	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C964	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C965	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C971	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1812	0CH5102K416	1000PF 50V 5% NP0 2012 R/TP
		C616	0CH5102K416	1000PF 50V 5% NP0 2012 R/TP
		C886	0CH5821K416	820PF 50V 5% NP0 2012 R/TP
		C695	0CH5102K416	1000PF 50V 5% NP0 2012 R/TP
		C802	0CH5820K416	82PF 50V 5% NP0 2012 R/TP
		C991	0CH6020K116	2PF 50V 0.5 PF NP0 2012 R/TP
		C992	0CH6020K116	2PF 50V 0.5 PF NP0 2012 R/TP
		C1810	0CE105CK636	"1UF SHL,SD 50V 20% FM5 BP(D)"
		C688	0CE108EJK18	"1000UF KMG,RD 35V 20%,-20% F"
		C689	0CE108EJK18	"1000UF KMG,RD 35V 20%,-20% F"
		C902	0CE4772J618	470UF KMF 35V 20% TP 5 FL
		C112	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C113	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C1806	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C1809	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C1813	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C1821	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C1822	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C1862	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) S
		C1865	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) S
		C1868	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) S
		C1871	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) S
		C602	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C604	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) S
		C611	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C613	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C614	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C651	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) S
		C653	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) S
		C665	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C667	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C692	0CE476VK6DC	47UF MV 50V 20% R/TP(SMD) SM
		C725	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C727	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) S
		C741	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C743	0CH8477F691	470UF MVK 16V 20% SMD R/TP(S
		C763	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C766	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C782	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C785	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C801	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) S
		C803	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C804	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C805	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C807	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C808	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C809	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C810	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C812	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C813	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C814	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C815	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C817	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C830	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C836	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C842	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C849	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
		C850	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
		C857	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
		C858	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
		C866	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C867	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C868	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C873	0CH8477F691	470UF MVK 16V 20% SMD R/TP(S
		C875	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C878	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) S
		C897	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C898	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
		C906	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C927	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C930	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C937	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C938	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C940	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C941	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C946	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C953	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD) S
		C954	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD) S
		C966	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C967	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C968	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) S
		C970	0CE335VK6DC	3.3UF MV 50V 20% R/TP(SMD) S
		C981	0CE335VK6DC	3.3UF MV 50V 20% R/TP(SMD) S
		C987	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C677	0CF4741L438	0.47UF D 63V 5% TP 5 M/PE NI
		C681	0CF4741L438	0.47UF D 63V 5% TP 5 M/PE NI
DIODEs				
		D702	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D704	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D706	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		IC602	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D701	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		ZD101	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD102	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD104	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323

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		ZD106	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD115	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD120	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD121	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD122	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD123	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD124	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD125	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD128	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD132	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD133	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD300	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD301	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD302	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD303	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD105	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD107	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD108	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD109	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD110	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD111	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD112	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD113	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD114	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD116	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD129	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD130	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD131	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD903	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD904	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD905	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD902	0DZ820009AK	UDZS 8.2B ROHM R/TP SOD323 0
IC				
		IC608	0ICB533100A	CS5331A-KSR 8SOIC TP ADC -
		IC606	0IKE702900G	KIA7029AF SOT-89 TP 2.9V VOL
		IC102	0IMMRCS013A	"CAT24C21 CATALYST 8P,SOIC R/"
		IC804	0IMMRNE002A	UPD64083GF3BA NEC 100 QFP ST
		IC604	0IMCRNL001A	NSP-6241B NEOFIDELITY 64P TQ
		IC605	0IMCRTI028C	TAS5122DCAR TEXAS INSTRUMENT
		IC801	0IMCRSO025A	CXA2181Q SONY 48P QFP TRAY V
		IC803	0ISO206900A	CXA2069Q QFP64 BK I2C BUS AV
		IC902	0IMCRTI007A	TPA0242PWP TEXAS INSTRUMENT
		IC904	0IMCRMN027B	MSP4440G-QA-C13-101WITH SRS
		IC601	0IMCRFA010A	"KA7809R, FAIRCHILD 2P D-PAK,"
		IC702	0IMCRSH001A	"PQ05DZ1U SHARP 5, SMD TYPE R"
		IC704	0IMCRSH001A	"PQ05DZ1U SHARP 5, SMD TYPE R"
		IC705	0IMCRFA010A	"KA7809R, FAIRCHILD 2P D-PAK,"
		IC706	0IPRPM1001A	MIC39100 MICREL 3P SOT223 R/
		IC603	0ISTLT1049A	CD4052BPWR TEXAS INSTRUMENT
		IC901	0IMCRTI001A	SN74HCT157D TEXAS INSTRUMENT
COIL & CORE & FILTER				
		L607	6140VB0022A	CPS-0810 GET 22UH 21.5TURNS
		L608	6140VB0022A	CPS-0810 GET 22UH 21.5TURNS
		L609	6140VB0022A	CPS-0810 GET 22UH 21.5TURNS
		L610	6140VB0022A	CPS-0810 GET 22UH 21.5TURNS
		L602	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L603	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L604	6210TCE001G	HH-1M3216-501 CERATEC 3216MM

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		L605	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L606	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L611	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L614	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L709	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L713	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L715	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L716	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L718	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L719	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L802	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L803	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L805	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L809	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L815	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L816	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L817	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L818	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L821	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		LP101	6210TCE001D	HB-1M2012-601JT CERATEC 2012
		L104	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L613	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L705	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L708	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L710	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L711	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L712	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L714	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L720	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L724	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L725	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L801	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L819	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L831	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		L832	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		L848	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		L849	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		L850	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		L851	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		L852	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		L853	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L855	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L856	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L857	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L858	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L865	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L909	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		LP100	6210TCE001D	HB-1M2012-601JT CERATEC 2012
		LS600	6210TCE001P	HB-1S2012-121JT CERATECH 201
		LS601	6210TCE001P	HB-1S2012-121JT CERATECH 201
		LS602	6210TCE001P	HB-1S2012-121JT CERATECH 201
		LS603	6210TCE001P	HB-1S2012-121JT CERATECH 201
		T801	6200J00011B	H354LAI-K5225 TOKO R/TP BAND
		T802	6200J00011B	H354LAI-K5225 TOKO R/TP BAND
		T803	6200J00011A	H354LAI-K5202 TOKO R/TP BAND
		T804	6200J00011A	H354LAI-K5202 TOKO R/TP BAND
INDUCTOR				
		L102	0LC4732101A	4.7UH 10% 3216 R/TC FI-B3216
		L103	0LC4732101A	4.7UH 10% 3216 R/TC FI-B3216
		L804	0LC2232101A	22UH 10% 3216 R/TC FI-D3216-

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		L806	0LC4732101A	4.7UH 10% 3216 R/TC FI-B3216
		L807	0LC2232101A	22UH 10% 3216 R/TC FI-D3216-
		L808	0LC1032101A	10UH 10% 3216 R/TC FI-C3216-
		L810	0LCML00005A	MLI-201209-5R6K MAG LAYERS R
		L906	0LC2232101A	22UH 10% 3216 R/TC FI-D3216-
		L907	0LC1020101A	1UH 10% 2012 R/TC FI-B2012-1
		L908	0LC1020101A	1UH 10% 2012 R/TC FI-B2012-1
		L912	0LC2232101A	22UH 10% 3216 R/TC FI-D3216-
		L911	0LC2232101A	22UH 10% 3216 R/TC FI-D3216-
		L913	0LC2232101A	22UH 10% 3216 R/TC FI-D3216-
TRANSISTOR				
		Q103	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q806	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q807	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q808	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q809	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q810	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q811	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q816	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q817	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q818	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q819	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q825	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q827	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q828	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q829	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q835	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q836	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q839	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q840	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q843	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q844	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q845	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q851	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q903	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q904	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q910	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q911	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q912	0TR102008AA	KRA102S R/TP KEC SOT23 CHIP
		Q913	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q914	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q915	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		QP102	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q803	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q804	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q805	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q813	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q820	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q821	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q822	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q823	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q824	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q826	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q830	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q832	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q833	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q834	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q837	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q838	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q841	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -

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		Q842	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q846	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q847	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q848	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q849	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q850	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		QP100	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		QP101	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
RESISTORS				
		R101	0RH1000D622	100 1/10W 5 D.R/TP
		R102	0RH1202D622	12K 1/10W 5 D.R/TP
		R105	0RH7500D622	750 OHM 1 / 10 W 5% D R/TP
		R106	0RH0822D622	82 1/10W 5 D.R/TP
		R108	0RH1000D622	100 1/10W 5 D.R/TP
		R109	0RH0822D622	82 1/10W 5 D.R/TP
		R111	0RH0822D622	82 1/10W 5 D.R/TP
		R120	0RH4703D622	470K 1/10W 5 D.R/TP
		R125	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R128	0RH1000D622	100 1/10W 5 D.R/TP
		R145	0RH4703D622	470K 1/10W 5 D.R/TP
		R147	0RH4703D622	470K 1/10W 5 D.R/TP
		R1601	0RH1500D622	150 1/10W 5 D.R/TP
		R1602	0RH1500D622	150 1/10W 5 D.R/TP
		R162	0RH0752D622	75 1/10W 5 D.R/TP
		R168	0RH0752D622	75 1/10W 5 D.R/TP
		R170	0RH4703D622	470K 1/10W 5 D.R/TP
		R172	0RH4703D622	470K 1/10W 5 D.R/TP
		R175	0RH0752D622	75 1/10W 5 D.R/TP
		R177	0RH0752D622	75 1/10W 5 D.R/TP
		R1801	0RH1000D622	100 1/10W 5 D.R/TP
		R1802	0RH1000D622	100 1/10W 5 D.R/TP
		R1805	0RH3300D622	330 1/10W 5 D.R/TP
		R1806	0RH3300D622	330 1/10W 5 D.R/TP
		R1810	0RH5100D622	510 1/10W 5 D.R/TP
		R1817	0RH3600D622	CHIP 360-J 1/10 W
		R1818	0RH2200D622	220 1/10W 5 D.R/TP
		R1819	0RH1000D622	100 1/10W 5 D.R/TP
		R1820	0RH1000D622	100 1/10W 5 D.R/TP
		R1821	0RH1000D622	100 1/10W 5 D.R/TP
		R1822	0RH4703D622	470K 1/10W 5 D.R/TP
		R1827	0RH4700D622	470 1/10W 5 D.R/TP
		R1828	0RH3302D622	33K 1/10W 5 D.R/TP
		R1831	0RH4700D622	470 1/10W 5 D.R/TP
		R1832	0RH3000D622	300 1/10W 5 D.R/TP
		R1833	0RH0682D622	68 1/10W 5 D.R/TP
		R1835	0RH1801D622	1.8K 1/10W 5 D.R/TP
		R1840	0RH2200D622	220 1/10W 5 D.R/TP
		R1841	0RH4702D622	47K 1/10W 5 D.R/TP
		R1843	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1848	0RH3302D622	33K 1/10W 5 D.R/TP
		R1851	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1855	0RH1801D622	1.8K 1/10W 5 D.R/TP
		R1863	0RH4700D622	470 1/10W 5 D.R/TP
		R1864	0RH0472D622	47 1/10W 5 D.R/TP
		R1865	0RH4700D622	470 1/10W 5 D.R/TP
		R1866	0RH4700D622	470 1/10W 5 D.R/TP
		R1868	0RH2700D622	270 1/10W 5 D.R/TP
		R1874	0RH4700D622	470 1/10W 5 D.R/TP
		R1875	0RH0472D622	47 1/10W 5 D.R/TP
		R1876	0RH4700D622	470 1/10W 5 D.R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R1877	0RH4700D622	470 1/10W 5 D.R/TP
		R1879	0RH2700D622	270 1/10W 5 D.R/TP
		R1884	0RH0752D622	75 1/10W 5 D.R/TP
		R1887	0RH0752D622	75 1/10W 5 D.R/TP
		R1893	0RH0752D622	75 1/10W 5 D.R/TP
		R1894	0RH0752D622	75 1/10W 5 D.R/TP
		R1895	0RH0752D622	75 1/10W 5 D.R/TP
		R1903	0RH4703D622	470K 1/10W 5 D.R/TP
		R1905	0RH2001D622	2.0K 1/10W 5 D.R/TP
		R1907	0RH4703D622	470K 1/10W 5 D.R/TP
		R1909	0RH2001D622	2.0K 1/10W 5 D.R/TP
		R661	0RH0221D622	2.2 1/10W 5 D.R/TP
		R664	0RH0221D622	2.2 1/10W 5 D.R/TP
		R669	0RH0221D622	2.2 1/10W 5 D.R/TP
		R670	0RH0221D622	2.2 1/10W 5 D.R/TP
		R673	0RH0101D622	1.0 1/10W 5 TA
		R674	0RH0101D622	1.0 1/10W 5 TA
		R675	0RH0101D622	1.0 1/10W 5 TA
		R678	0RH0101D622	1.0 1/10W 5 TA
		R691	0RH5601D622	5.6K 1/10W 5 D.R/TP
		R800	0RH2200D622	220 1/10W 5 D.R/TP
		R801	0RH4700D622	470 1/10W 5 D.R/TP
		R804	0RH2200D622	220 1/10W 5 D.R/TP
		R824	0RH1502D622	15K 1/10W 5 D.R/TP
		R825	0RH6801D622	6.8K 1/10W 5 D.R/TP
		R827	0RH1502D622	15K 1/10W 5 D.R/TP
		R828	0RH6801D622	6.8K 1/10W 5 D.R/TP
		R830	0RH1502D622	15K 1/10W 5 D.R/TP
		R831	0RH6801D622	6.8K 1/10W 5 D.R/TP
		R833	0RH0752D622	75 1/10W 5 D.R/TP
		R834	0RH0752D622	75 1/10W 5 D.R/TP
		R836	0RH1502D622	15K 1/10W 5 D.R/TP
		R837	0RH6801D622	6.8K 1/10W 5 D.R/TP
		R839	0RH1502D622	15K 1/10W 5 D.R/TP
		R840	0RH6801D622	6.8K 1/10W 5 D.R/TP
		R842	0RH1502D622	15K 1/10W 5 D.R/TP
		R843	0RH6801D622	6.8K 1/10W 5 D.R/TP
		R852	0RH0752D622	75 1/10W 5 D.R/TP
		R853	0RH0752D622	75 1/10W 5 D.R/TP
		R862	0RH1502D622	15K 1/10W 5 D.R/TP
		R866	0RH0752D622	75 1/10W 5 D.R/TP
		R867	0RH0752D622	75 1/10W 5 D.R/TP
		R868	0RH0752D622	75 1/10W 5 D.R/TP
		R869	0RH1000D622	100 1/10W 5 D.R/TP
		R870	0RH1000D622	100 1/10W 5 D.R/TP
		R881	0RH2200D622	220 1/10W 5 D.R/TP
		R883	0RH0752D622	75 1/10W 5 D.R/TP
		R884	0RH2200D622	220 1/10W 5 D.R/TP
		R885	0RH4702D622	47K 1/10W 5 D.R/TP
		R887	0RH2200D622	220 1/10W 5 D.R/TP
		R891	0RH4703D622	470K 1/10W 5 D.R/TP
		R893	0RH4703D622	470K 1/10W 5 D.R/TP
		R894	0RH0752D622	75 1/10W 5 D.R/TP
		R895	0RH4702D622	47K 1/10W 5 D.R/TP
		R896	0RH2200D622	220 1/10W 5 D.R/TP
		R899	0RH0752D622	75 1/10W 5 D.R/TP
		R905	0RH2200D622	220 1/10W 5 D.R/TP
		R906	0RH2200D622	220 1/10W 5 D.R/TP
		R910	0RH1000D622	100 1/10W 5 D.R/TP
		R956	0RH1000D622	100 1/10W 5 D.R/TP
		R959	0RH2200D622	220 1/10W 5 D.R/TP
		R960	0RH2200D622	220 1/10W 5 D.R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R976	0RH1000D622	100 1/10W 5 D.R/TP
		R977	0RH4700D622	470 1/10W 5 D.R/TP
		R978	0RH1202D622	12K 1/10W 5 D.R/TP
		R979	0RH3300D622	330 1/10W 5 D.R/TP
		R980	0RH3901D622	3.9K 1/10W 5 D.R/TP
		R997	0RH1000D622	100 1/10W 5 D.R/TP
		R998	0RH1000D622	100 1/10W 5 D.R/TP
		R999	0RH4701D622	4.7K 1/10W 5 D.R/TP
		RP107	0RH1502D622	15K 1/10W 5 D.R/TP
		RP110	0RH1502D622	15K 1/10W 5 D.R/TP
		R113	0RH2200D622	220 1/10W 5 D.R/TP
		R114	0RH7500D622	750 OHM 1 / 10 W 5% D R/TP
		R115	0RH2200D622	220 1/10W 5 D.R/TP
		R116	0RH1202D622	12K 1/10W 5 D.R/TP
		R119	0RH4703D622	470K 1/10W 5 D.R/TP
		R121	0RH4703D622	470K 1/10W 5 D.R/TP
		R122	0RH4703D622	470K 1/10W 5 D.R/TP
		R132	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R133	0RH1000D622	100 1/10W 5 D.R/TP
		R134	0RH1000D622	100 1/10W 5 D.R/TP
		R146	0RH4703D622	470K 1/10W 5 D.R/TP
		R148	0RH4703D622	470K 1/10W 5 D.R/TP
		R155	0RH0822D622	82 1/10W 5 D.R/TP
		R156	0RH0822D622	82 1/10W 5 D.R/TP
		R157	0RH0822D622	82 1/10W 5 D.R/TP
		R158	0RH0822D622	82 1/10W 5 D.R/TP
		R159	0RH0822D622	82 1/10W 5 D.R/TP
		R160	0RH0822D622	82 1/10W 5 D.R/TP
		R1603	0RH4702D622	47K 1/10W 5 D.R/TP
		R161	0RH4703D622	470K 1/10W 5 D.R/TP
		R163	0RH4703D622	470K 1/10W 5 D.R/TP
		R1809	0RH0752D622	75 1/10W 5 D.R/TP
		R1813	0RH2200D622	220 1/10W 5 D.R/TP
		R1815	0RH0752D622	75 1/10W 5 D.R/TP
		R1823	0RH2200D622	220 1/10W 5 D.R/TP
		R1825	0RH0102D622	10 1/10W 5 D.R/TP
		R1826	0RH0102D622	10 1/10W 5 D.R/TP
		R183	0RH1502D622	15K 1/10W 5 D.R/TP
		R1836	0RH3301D622	3.3K 1/10W 5 D.R/TP
		R1837	0RH8200D622	820 1/10W 5 D.R/TP
		R1838	0RH4700D622	470 1/10W 5 D.R/TP
		R1839	0RH0752D622	75 1/10W 5 D.R/TP
		R1842	0RH2203D622	220K 1/10W 5 D.R/TP
		R1844	0RH4700D622	470 1/10W 5 D.R/TP
		R1856	0RH3301D622	3.3K 1/10W 5 D.R/TP
		R1857	0RH8200D622	820 1/10W 5 D.R/TP
		R1858	0RH4700D622	470 1/10W 5 D.R/TP
		R1859	0RH5600D622	560 1/10W 5 D.R/TP
		R186	0RH1502D622	15K 1/10W 5 D.R/TP
		R1860	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1869	0RH5601D622	5.6K 1/10W 5 D.R/TP
		R1870	0RH5600D622	560 1/10W 5 D.R/TP
		R1871	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1880	0RH5601D622	5.6K 1/10W 5 D.R/TP
		R189	0RH1502D622	15K 1/10W 5 D.R/TP
		R192	0RH0822D622	82 1/10W 5 D.R/TP
		R194	0RH0822D622	82 1/10W 5 D.R/TP
		R196	0RH4700D622	470 1/10W 5 D.R/TP
		R199	0RH0822D622	82 1/10W 5 D.R/TP
		R651	0RH2200D622	220 1/10W 5 D.R/TP
		R652	0RH2200D622	220 1/10W 5 D.R/TP
		R653	0RH2200D622	220 1/10W 5 D.R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R654	0RH2200D622	220 1/10W 5 D.R/TP
		R656	0RH1000D622	100 1/10W 5 D.R/TP
		R657	0RH1000D622	100 1/10W 5 D.R/TP
		R658	0RH2200D622	220 1/10W 5 D.R/TP
		R659	0RH1000D622	100 1/10W 5 D.R/TP
		R662	0RH0471D622	4.7 1/10W 5 D.R/TP
		R665	0RH0221D622	2.2 1/10W 5 D.R/TP
		R666	0RH0221D622	2.2 1/10W 5 D.R/TP
		R667	0RH0221D622	2.2 1/10W 5 D.R/TP
		R668	0RH0221D622	2.2 1/10W 5 D.R/TP
		R682	0RH1000D622	100 1/10W 5 D.R/TP
		R683	0RH1000D622	100 1/10W 5 D.R/TP
		R690	0RH1000D622	100 1/10W 5 D.R/TP
		R812	0RH1502D622	15K 1/10W 5 D.R/TP
		R813	0RH6801D622	6.8K 1/10W 5 D.R/TP
		R815	0RH1502D622	15K 1/10W 5 D.R/TP
		R816	0RH6801D622	6.8K 1/10W 5 D.R/TP
		R818	0RH1502D622	15K 1/10W 5 D.R/TP
		R819	0RH6801D622	6.8K 1/10W 5 D.R/TP
		R821	0RH0822D622	82 1/10W 5 D.R/TP
		R822	0RH0822D622	82 1/10W 5 D.R/TP
		R823	0RH0822D622	82 1/10W 5 D.R/TP
		R835	0RH1500D622	150 1/10W 5 D.R/TP
		R845	0RH0822D622	82 1/10W 5 D.R/TP
		R846	0RH0822D622	82 1/10W 5 D.R/TP
		R847	0RH0822D622	82 1/10W 5 D.R/TP
		R848	0RH0822D622	82 1/10W 5 D.R/TP
		R849	0RH0822D622	82 1/10W 5 D.R/TP
		R850	0RH0822D622	82 1/10W 5 D.R/TP
		R851	0RH0822D622	82 1/10W 5 D.R/TP
		R855	0RH0752D622	75 1/10W 5 D.R/TP
		R856	0RH0752D622	75 1/10W 5 D.R/TP
		R857	0RH1000D622	100 1/10W 5 D.R/TP
		R858	0RH0822D622	82 1/10W 5 D.R/TP
		R860	0RH0822D622	82 1/10W 5 D.R/TP
		R861	0RH0822D622	82 1/10W 5 D.R/TP
		R863	0RH4700D622	470 1/10W 5 D.R/TP
		R864	0RH4700D622	470 1/10W 5 D.R/TP
		R876	0RH2200D622	220 1/10W 5 D.R/TP
		R877	0RH5601D622	5.6K 1/10W 5 D.R/TP
		R878	0RH2200D622	220 1/10W 5 D.R/TP
		R879	0RH5601D622	5.6K 1/10W 5 D.R/TP
		R880	0RH2200D622	220 1/10W 5 D.R/TP
		R882	0RH2200D622	220 1/10W 5 D.R/TP
		R886	0RH5601D622	5.6K 1/10W 5 D.R/TP
		R888	0RH5601D622	5.6K 1/10W 5 D.R/TP
		R936	0RH6801D622	6.8K 1/10W 5 D.R/TP
		R950	0RH1000D622	100 1/10W 5 D.R/TP
		R951	0RH1000D622	100 1/10W 5 D.R/TP
		R952	0RH2200D622	220 1/10W 5 D.R/TP
		R953	0RH2200D622	220 1/10W 5 D.R/TP
		R954	0RH2200D622	220 1/10W 5 D.R/TP
		R955	0RH2200D622	220 1/10W 5 D.R/TP
		RP102	0RH1502D622	15K 1/10W 5 D.R/TP
		RP104	0RH1502D622	15K 1/10W 5 D.R/TP
		R859	0RN1002F409	10K 1/6W 1 TA52
		L811	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		L812	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		L813	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		L814	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R103	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R104	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R107	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R110	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R112	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R126	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R127	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R129	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R135	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R138	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R140	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R141	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R143	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R164	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R166	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R173	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R174	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R178	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1803	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R1804	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R1807	0RH1501D622	1.5K OHM 1 / 10 W 2012 5.00% D
		R1808	0RH1501D622	1.5K OHM 1 / 10 W 2012 5.00% D
		R1811	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R1814	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R1829	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R1834	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1845	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R1846	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00% D
		R1849	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R1852	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00% D
		R1862	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1867	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R1873	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1878	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R1882	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R1885	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R1886	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R1902	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1904	0RH1501D622	1.5K OHM 1 / 10 W 2012 5.00% D
		R1906	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1908	0RH1501D622	1.5K OHM 1 / 10 W 2012 5.00% D
		R1910	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1911	0RH0432D622	43 OHM 1 / 10 W 2012 5.00% D
		R1926	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00% D
		R304	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R601	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R646	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R663	0RH0331D622	3.3 OHM 1 / 10 W 2012 5.00% D
		R679	0RH0331D622	3.3 OHM 1 / 10 W 2012 5.00% D
		R692	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00% D
		R703	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R707	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R803	0RH1501D622	1.5K OHM 1 / 10 W 2012 5.00% D
		R805	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R826	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R829	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
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		R838	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R841	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
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		R865	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R871	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
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		R901	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D

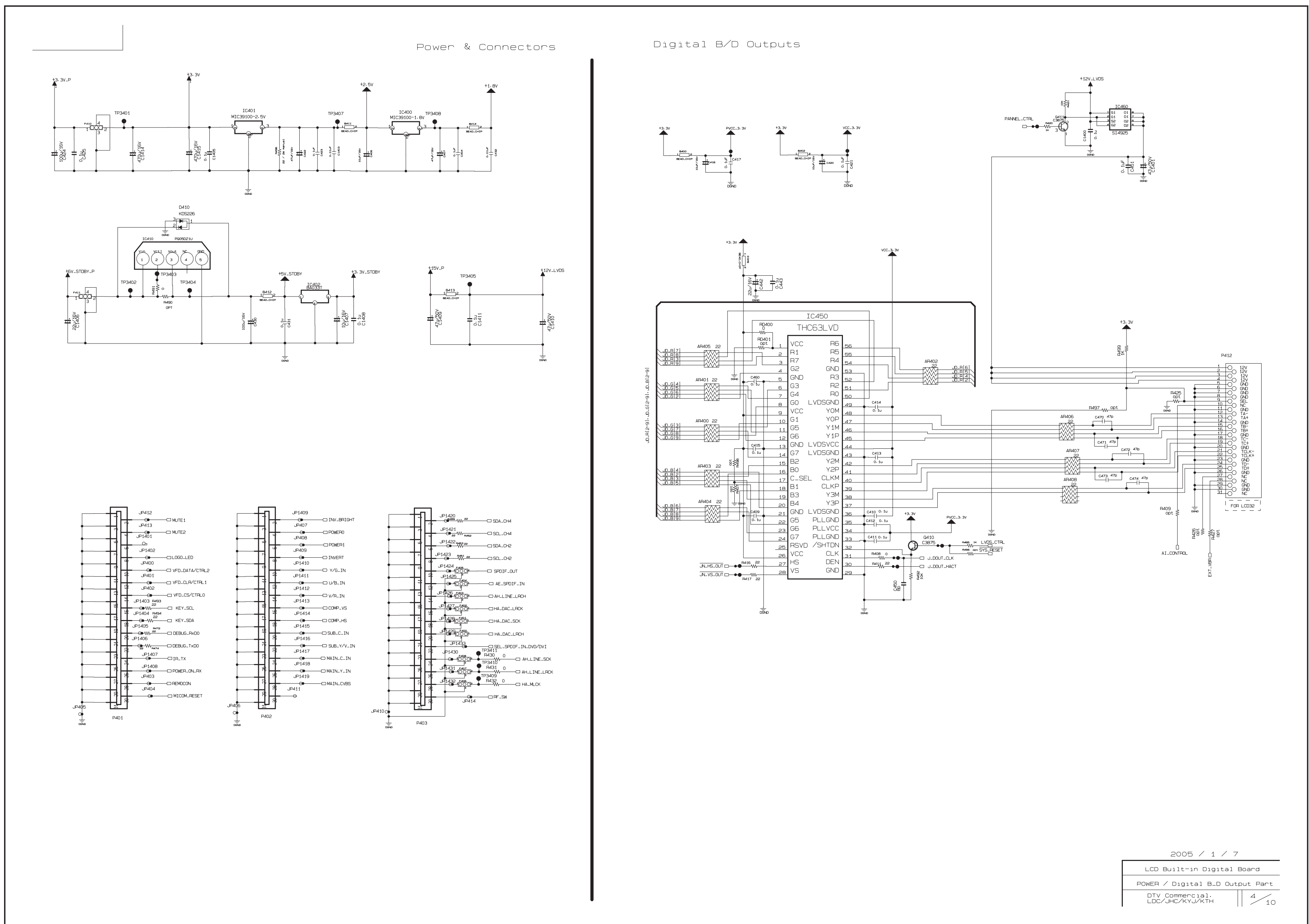
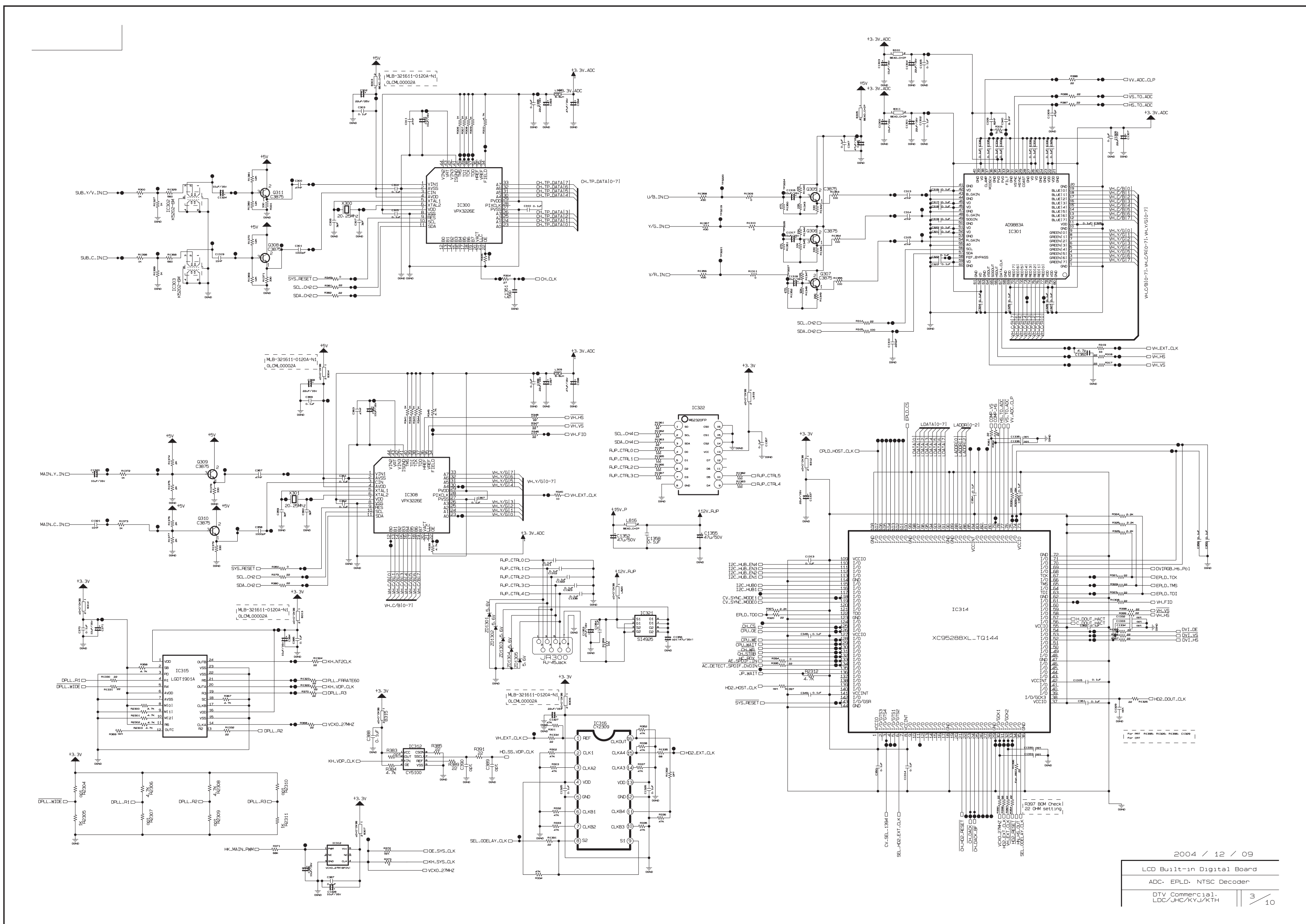
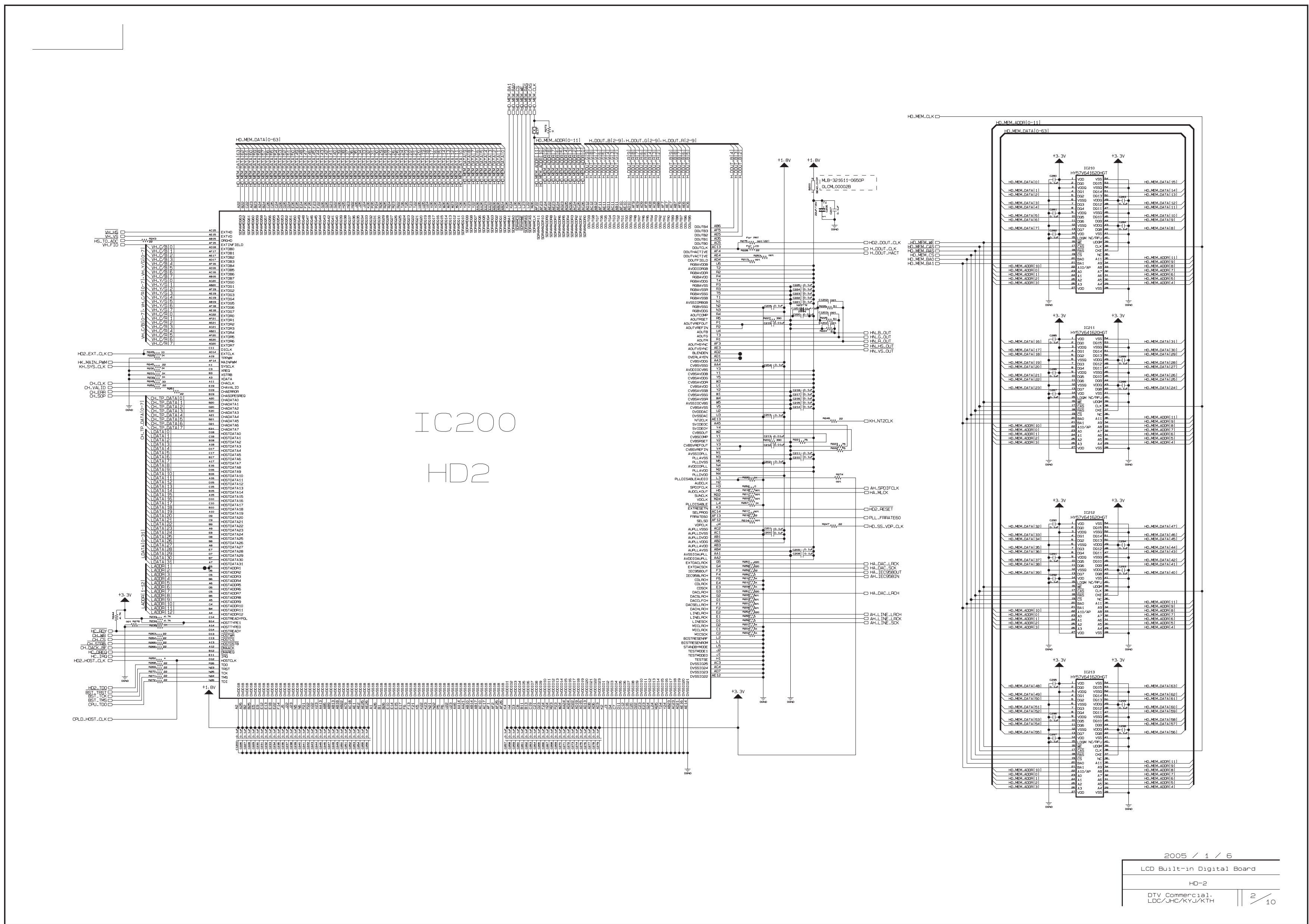
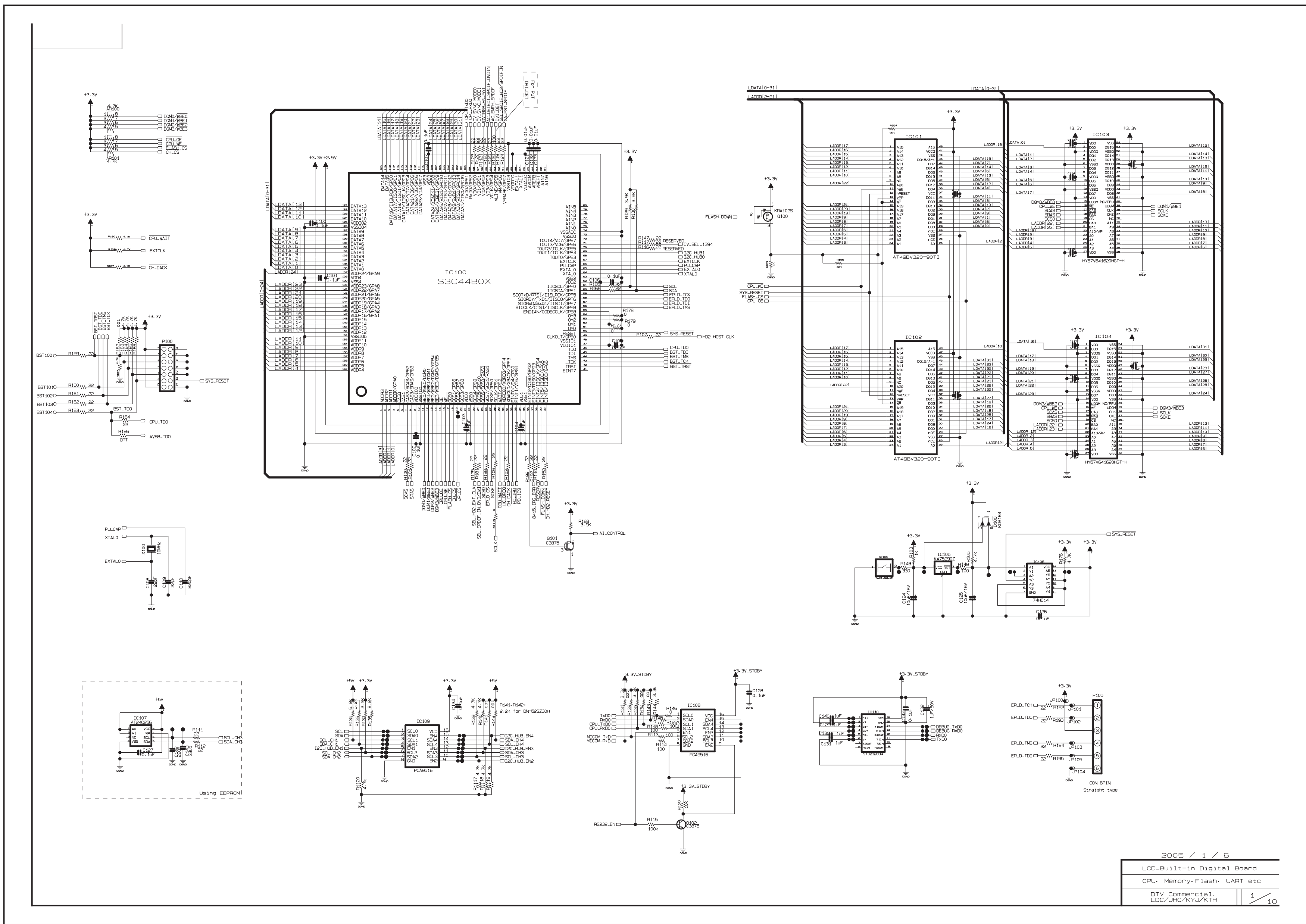
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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R902	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R903	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R904	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R946	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R965	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R966	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R995	0RH0432D622	43 OHM 1 / 10 W 2012 5.00% D
		RP106	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		RP108	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		RP109	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		RP111	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R118	0RH1501D622	1.5K OHM 1 / 10 W 2012 5.00%
		R123	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R124	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R130	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R131	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R136	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R137	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R142	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R144	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R149	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R150	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R151	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R152	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R153	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R154	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1600	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R179	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R180	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R181	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R1824	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R184	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R185	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1854	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R187	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R188	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R190	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R191	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1922	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R1923	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R1924	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R193	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R195	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R197	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R198	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R300	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R301	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R302	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R303	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R602	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R648	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R649	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R650	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R671	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R672	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R676	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R677	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R681	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R684	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R685	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
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		R697	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D

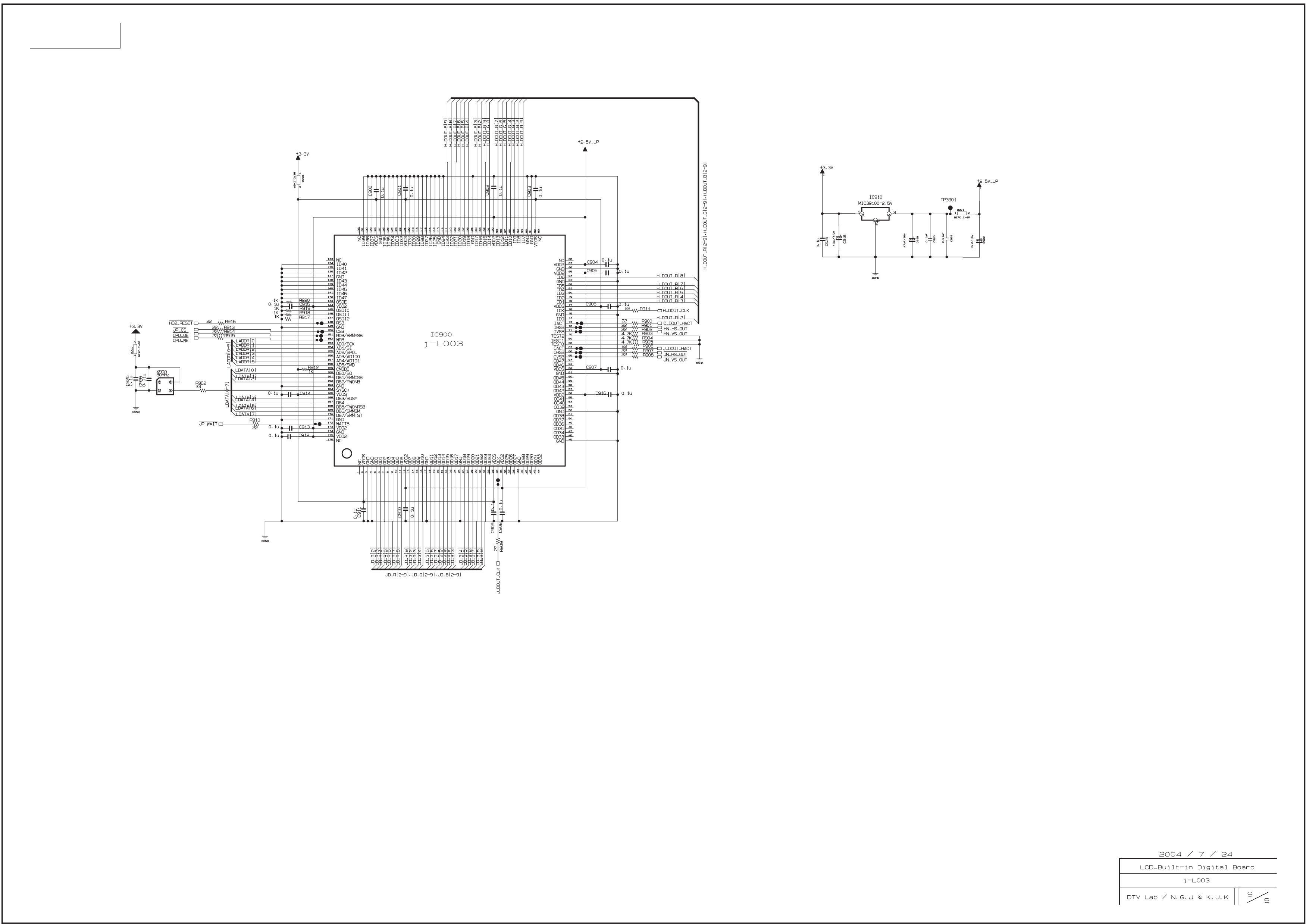
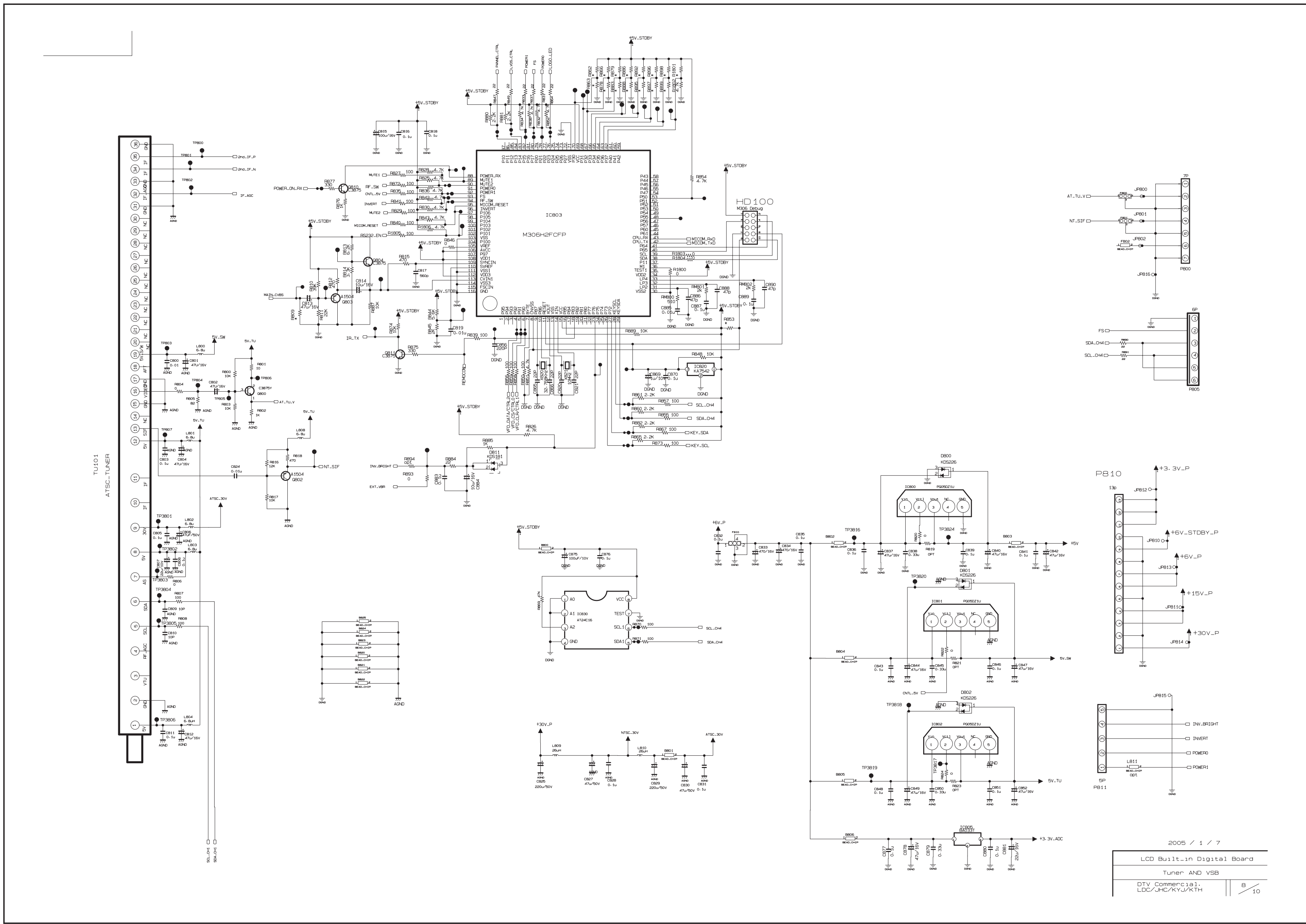
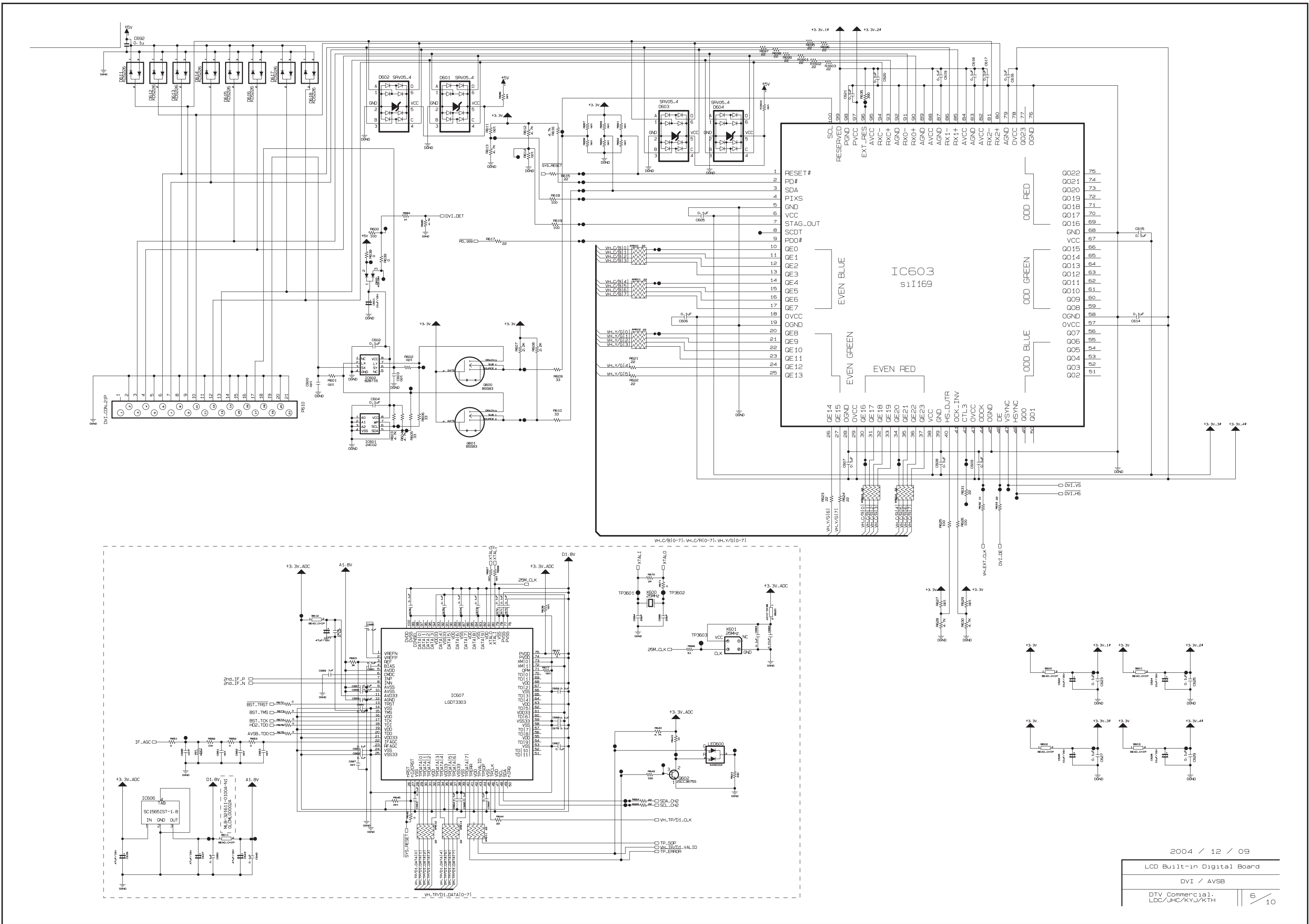
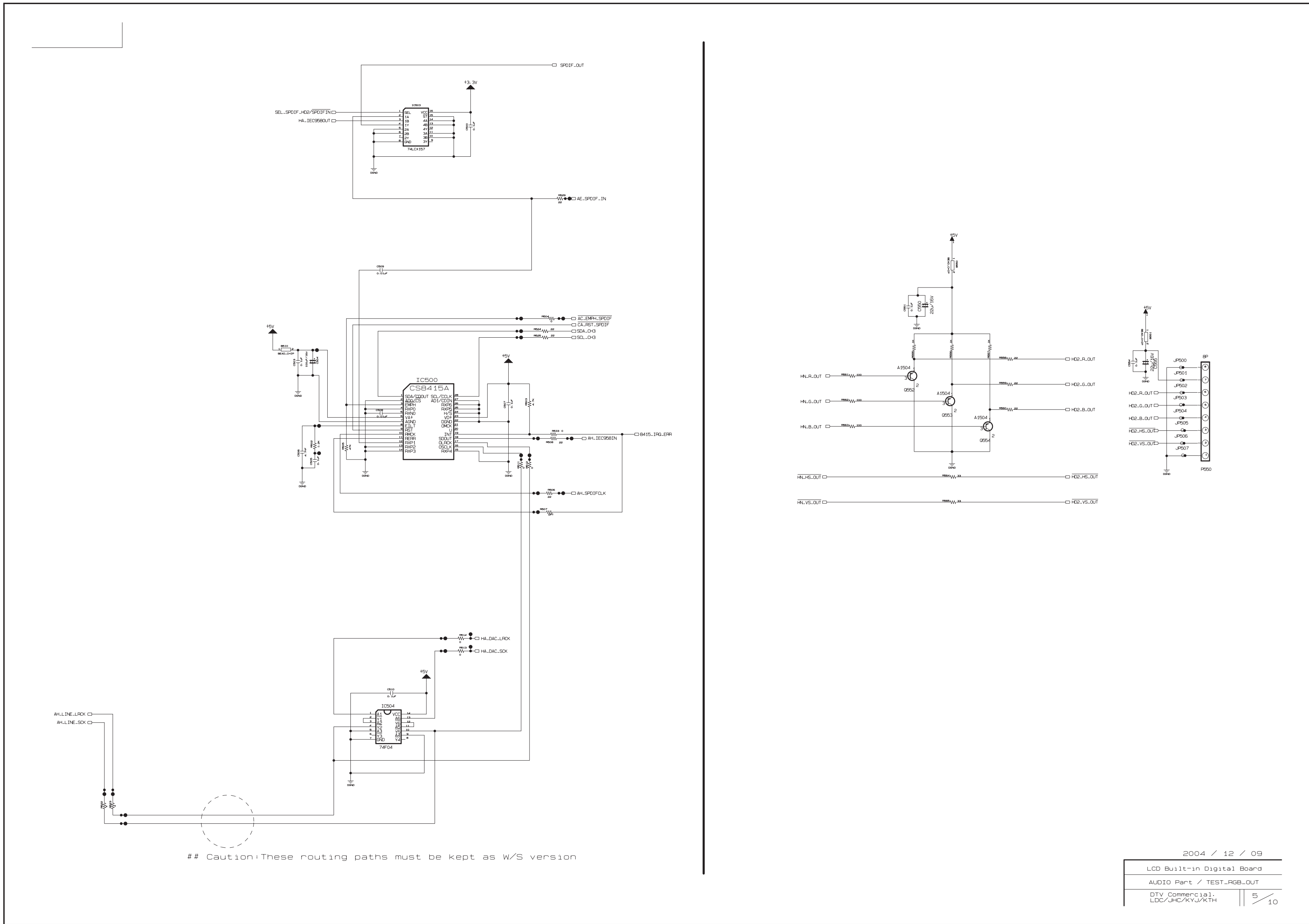
DATE: 2005. 02. 20.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R698	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R802	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R806	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R814	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R817	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R820	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R898	0RH0331D622	3.3 OHM 1 / 10 W 2012 5.00%
		R900	0RH0331D622	3.3 OHM 1 / 10 W 2012 5.00%
		R907	0RH0331D622	3.3 OHM 1 / 10 W 2012 5.00%
		R908	0RH0331D622	3.3 OHM 1 / 10 W 2012 5.00%
		R909	0RH0331D622	3.3 OHM 1 / 10 W 2012 5.00%
		R911	0RH0331D622	3.3 OHM 1 / 10 W 2012 5.00%
		R930	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R931	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R932	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R933	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R934	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R935	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R937	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R938	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R941	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R942	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R947	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R948	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R949	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R975	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R987	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R988	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R989	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R990	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R991	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R992	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R993	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R994	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		RP100	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		RP101	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		RP103	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		RP105	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
OTHERS				
		LD801	0DL233309AC	SAM2333 TP KWANG GREEN/RED G
		X802	6212AB3004D	CSALF2M69G4ZF01-A3 MURATA 2.
		X801	6212AB2015A	HC-49/SM4H BUBANG 4MHZ +/- 3
		X803	6212AB2015B	HC-49/SM5H BUBANG 20MHZ +/-
		X902	6202VDT002H	SX-1 SUNNY 18.432000MHZ +/-3
CONTROL BOARD				
		C1001	0CE476DF618	47UF STD 16V M FL TP5
		C2103	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1000	0CN1010K519	100P 50V K B TA52
		L2104	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		L2105	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		LS2101	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		LS2102	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		ZD1201	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD1202	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD1203	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD1204	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD1205	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD1206	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323

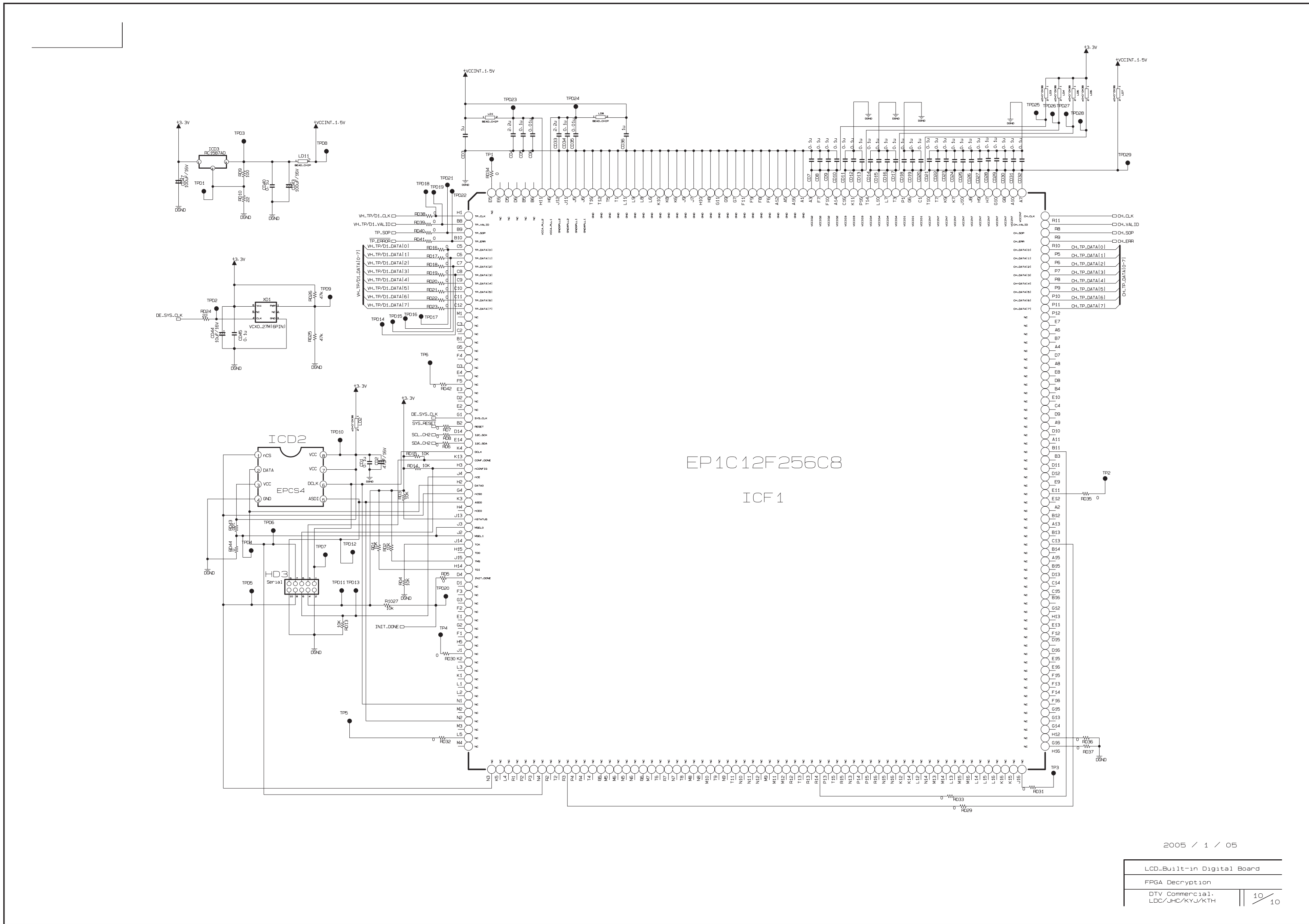
DATE: 2005. 02. 20.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		ZD2101	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD2102	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD2103	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD2104	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD2105	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZDS2101	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZDS2102	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZDS2103	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZDS2104	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZDS2105	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		L1000	0LA0102K119	10UH K 2.3*3.4 TP
		PA1000	6726VV0006J	TSOP2238MQ1 VISHAY 38KHZ MC0
		R2102	0RH0752D622	75 1/10W 5 D.R/TP
		R2104	0RH0752D622	75 1/10W 5 D.R/TP
		R2105	0RH0752D622	75 1/10W 5 D.R/TP
		R2107	0RH4703D622	470K 1/10W 5 D.R/TP
		R2110	0RH4703D622	470K 1/10W 5 D.R/TP
		RS2104	0RH4703D622	470K 1/10W 5 D.R/TP
		RS2105	0RH4703D622	470K 1/10W 5 D.R/TP
		L2101	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		L2102	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R2101	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R2103	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		SW1201	6600R00001B	JTP1289 JEIL 12V DC 1MA VERT
		SW1202	6600R00001B	JTP1289 JEIL 12V DC 1MA VERT
		SW1203	6600R00001B	JTP1289 JEIL 12V DC 1MA VERT
		SW1204	6600R00001B	JTP1289 JEIL 12V DC 1MA VERT
		SW1205	6600R00001B	JTP1289 JEIL 12V DC 1MA VERT
		SW1206	6600R00001B	JTP1289 JEIL 12V DC 1MA VERT
		SW1207	6600R00001B	JTP1289 JEIL 12V DC 1MA VERT
		SW1208	6600R00001B	JTP1289 JEIL 12V DC 1MA VERT
		R1000	971-0016	TIN HDC 0.60H
LED BOARD				
		C1209	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C1215	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C1210	0CE3363F618	33UF SRE 16V M FL TP5
		C1211	0CE3363F618	33UF SRE 16V M FL TP5
		C1212	0CE3363F618	33UF SRE 16V M FL TP5
		C1214	0CE3363F618	33UF SRE 16V M FL TP5
		C1201	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1202	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1203	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1204	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1205	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1206	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1207	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1208	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		L1205	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		L1206	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		R1210	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		R1212	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		R1229	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		R1233	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		R1234	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		R1264	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		IC1202	0IKE657830B	KID65783AF 20PIN SOP TRAY TR
		IC1203	0IMI623200B	"M62320FP,I/O EXPANDER 16P SO"
		IC1201	0INE163110A	UPD16311GC-AB6 FIP DRIV 52PQ
		L1201	0LA0102K119	10UH K 2.3*3.4 TP
		L1202	0LA0102K119	10UH K 2.3*3.4 TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		L1207	0LC1032101A	10UH 10% 3216 R/TC FI-C3216-
		L1210	0LC1032101A	10UH 10% 3216 R/TC FI-C3216-
		R1202	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1203	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1204	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1205	0RH0392D622	39 1/10W 5 D.R/TP
		R1208	0RH5100D622	510 1/10W 5 D.R/TP
		R1211	0RH2200D622	220 1/10W 5 D.R/TP
		R1213	0RH1000D622	100 1/10W 5 D.R/TP
		R1216	0RH0392D622	39 1/10W 5 D.R/TP
		R1217	0RH4702D622	47K 1/10W 5 D.R/TP
		R1218	0RH1000D622	100 1/10W 5 D.R/TP
		R1220	0RH1000D622	100 1/10W 5 D.R/TP
		R1221	0RH0392D622	39 1/10W 5 D.R/TP
		R1226	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1228	0RH0392D622	39 1/10W 5 D.R/TP
		R1230	0RH0392D622	39 1/10W 5 D.R/TP
		R1235	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1236	0RH0392D622	39 1/10W 5 D.R/TP
		R1237	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1238	0RH1500D622	150 1/10W 5 D.R/TP
		R1239	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1240	0RH1000D622	100 1/10W 5 D.R/TP
		R1241	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1242	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1243	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1244	0RH1000D622	100 1/10W 5 D.R/TP
		R1245	0RH1000D622	100 1/10W 5 D.R/TP
		R1246	0RH1000D622	100 1/10W 5 D.R/TP
		R1247	0RH1000D622	100 1/10W 5 D.R/TP
		R1248	0RH1000D622	100 1/10W 5 D.R/TP
		R1250	0RH0392D622	39 1/10W 5 D.R/TP
		R1253	0RH0392D622	39 1/10W 5 D.R/TP
		R1257	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1258	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1260	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1261	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1262	0RH1500D622	150 1/10W 5 D.R/TP
		R1263	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1266	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1267	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1268	0RH1500D622	150 1/10W 5 D.R/TP
		R1272	0RH1000D622	100 1/10W 5 D.R/TP
		R1275	0RH3302D622	33K 1/10W 5 D.R/TP
		R1276	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1277	0RH1000D622	100 1/10W 5 D.R/TP
		R1278	0RH1000D622	100 1/10W 5 D.R/TP
		R1287	0RH0392D622	39 1/10W 5 D.R/TP
		R1288	0RH0392D622	39 1/10W 5 D.R/TP
		R1289	0RH0392D622	39 1/10W 5 D.R/TP
		R1290	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1291	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1292	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1207	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1279	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1280	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1281	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1282	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1283	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1284	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1285	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1286	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R1293	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R1294	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		Q1201	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1202	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1203	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1204	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1205	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1206	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1207	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1208	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1210	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1211	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1212	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1213	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1214	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1215	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
LOGO42 BOARD				
		LED802	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE 6
		LED804	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE 6
		LED806	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE 6
		LED808	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE 6
		LED810	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE 6
		LED812	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE 6
		C3101	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) S
		C3102	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) S
		C3103	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) S
		C3104	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) S
		C3105	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) S
		C3106	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) S
		C3107	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) S
		C3111	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C3112	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C3113	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C3114	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C3115	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C3116	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C3117	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		P1002	6602T12005B	12505WR-03A00 YEONHO 3P 1.25
		Q3101	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3102	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3103	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3104	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3105	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3106	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3107	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		R3101	0RJ2000D677	200 OHM 1/10 W 5% 1608 R/TP
		R3102	0RJ2000D677	200 OHM 1/10 W 5% 1608 R/TP
		R3103	0RJ2000D677	200 OHM 1/10 W 5% 1608 R/TP
		R3104	0RJ2000D677	200 OHM 1/10 W 5% 1608 R/TP
		R3105	0RJ2000D677	200 OHM 1/10 W 5% 1608 R/TP
		R3106	0RJ2000D677	200 OHM 1/10 W 5% 1608 R/TP
		R3107	0RJ2000D677	200 OHM 1/10 W 5% 1608 R/TP
		R3111	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R3112	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R3113	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R3114	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R3115	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R3116	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R3117	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R3120	0RJ2001D677	2K OHM 1/10 W 5% 1608 R/TP









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